

*Toner (J. M.)*

CONTRIBUTIONS TO THE STUDY OF YELLOW FEVER,

A PAPER READ BEFORE

THE AMERICAN PUBLIC HEALTH ASSOCIATION,  
NEW YORK, NOVEMBER 12, 1873,

ON THE

NATURAL HISTORY AND DISTRIBUTION

OF

YELLOW FEVER

IN

THE UNITED STATES,

WITH

CHART SHOWING ALL THE LOCALITIES, AND THE ELEVATION OF EACH PLACE ABOVE SEA-LEVEL,  
WHERE IT HAS APPEARED,

FROM

A. D. 1668 to A. D. 1874,

BY

J. M. TONER, M. D.



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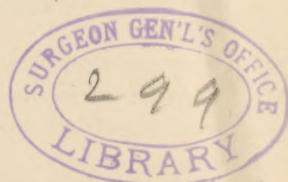


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# THE DISTRIBUTION AND NATURAL HISTORY OF YELLOW FEVER AS IT HAS OCCURRED AT DIFFERENT TIMES IN THE UNITED STATES.

BY J. M. TONER, M. D.,

*President of the American Medical Association, Washington, D. C.*

THE map which accompanies this paper, and which indicates the region where yellow fever has prevailed, either in an epidemic or in a sporadic form since the settlement of our country, is made up from notes taken in the study of the geographical distribution of the diseases of the United States.\*

No special opportunities for studying the disease in question are claimed, nor originality in the mode of presenting the facts. Nevertheless, the map is believed to be accurate as far as it goes, if the data derived from past and contemporary medical literature can be relied upon.

Nor is it pretended that this paper is exhaustive, localities not named having, no doubt, been visited by this fever; but we are confident such localities will be found within the region of its general distribution, as here indicated.

The table accompanying this paper, which furnishes mainly the data upon which the map is projected, gives the names of the cities and other localities where yellow fever has occurred in our country from its first settlement, arranged by States in alphabetical order, with the years and dates of its appearance and disappearance.

The elevation of each locality above the sea-level, as far as possible, has been given from reliable sources. In some instances the elevation of a place is assumed from a general knowledge of the altitude of the surrounding country. The errors in these, if any, will be unimportant.

The influence upon localities of elevation above the sea-level, with the exemption from yellow-fever they seem to thence possess, is the view we here wish to call to the attention of sanitarians and of the profession.

We are inclined to give much weight to the theory that diseases have geographical areas and limits, modified somewhat by topographical and climatic conditions, which determine the types of disease as do climate and elevation the fauna and flora of a locality.

The fact has always been patent to the profession, that there are parts of the earth in which particular forms of disease occur, to the almost entire exclusion of others. The study of the causes of this difference is

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\* The map herewith published is projected from a large one, 8 by 10 feet in size, for the execution of which Dr. TONER desires to express his indebtedness to the kindness of the Hon. WILLIS DRUMMOND, Commissioner of the United States Land Office.—W.



as important as any that can engage the attention of the physician. As a simple factor elevation will, we apprehend, be found to possess qualities both preventive and curative.

We shall in this paper studiously avoid discussing the questions whether yellow fever is a specific disease or not; whether it is always imported; or whether under certain conditions it may originate within our own country.

Nor do we aim to speak as an expert, never having seen a case of yellow fever, but rather appear as a collator of facts in its history. At the present time the natural history of disease, if we may so use the term in describing the special characteristic distribution of diseases that exist in limited geographical areas, is attracting much attention. There can be no doubt that an accurate knowledge of the climate and other physical peculiarities, and of the prevailing meteorological conditions of a region, will greatly aid the sanitariat and physician in preventing sickness, and in treating successfully the diseases incident to a locality.

The more exact and extended this information becomes, the more definitely can physicians mark out the boundaries and the distribution of diseases over the globe, and suggest measures of relief.

The chief factors usually and most naturally taken into account in the study of the salubrity of a State, or even a city, are latitude, longitude, the extremes of heat and cold and mean annual temperature, the prevailing direction of the winds, the general humidity of the air, and the annual precipitation, drainage, etc.

These undoubtedly furnish most valuable information, but there is another important element, that of elevation, which has the power to intensify or counteract the influence of most of them.

The most insalubrious regions are, confessedly, the savannas and tide-water lands of the tropic and temperate zones. The impression is quite general that persons of the same nationality, living on mountains or high table-lands are more rugged and healthy, as a general rule, than their friends engaged in similar occupations on the low lands in the same latitude.

The accompanying map enables us, in a comprehensive way, to consider the question whether elevation has presented any barrier to the progress of yellow fever in the United States, by bringing all localities where it has prevailed, with their altitudes, before the eye at one time.

The fact will be patent to any one that the low lands of the Gulf States and the Atlantic coast, with the water-courses emptying into them, are the regions of its most frequent visitations in the United States.

The conceded home of yellow fever is in the West Indies and the Bahamas, with a portion of the adjacent continents of North and South America. A square formed by the forty-fifth and the one hundredth degrees of longitude, and the thirty-fifth north and the fifth south latitude, will include the favorite region of this disease.

Although originating within the square named, history shows that it may prevail on the sea-coast in any locality within the tropics, north and south of the equator, where malarial fevers prevail, and the daily average of the thermometer is over 75° or 80° with a high dew-point for weeks or months together.

If these latter conditions, however, were the only ones necessary to the development of this disease, it should prevail much more widely; for they exist, during parts of the summer at least, in almost all of our Atlantic cities, as may be seen by reference to the record of temperature shown by the admirable isothermal maps in Lorin Blodgett's *Climatology*.

There are, no doubt, other climatic conditions essential to its origin, if not to its propagation and spread. Once the disease has become epidemic in a place, it can exist at a much lower average daily range of the thermometer than seems to be required for its development.

It is, however, always controlled in its severity and checked in its spread, or entirely arrested by storms, heavy rains, and, most effectually, by frost. This has been exemplified by the polar waves, or "northers," that occasionally blow from the Arctic regions down over Texas, and by long-continued rains.

Yellow fever does not prevail in the East Indies nor in China. It has appeared in most of the maritime cities of the United States on the Atlantic coast, as far north as Boston, and indeed has been chronicled at Quebec and Halifax. But while it is true that it has thus visited many of the cities and towns on the sea-coast, it has, fortunately, never extended far into the interior of our country.

In the United States, it seems to prevail in the large sea-ports and in localities along the navigable water-courses having their outlet in the Gulf of Mexico. Dr. Drake, many years ago, observed that while the disease had appeared at almost every town on the Mississippi, as far up as Vicksburg, that Woodville, twelve miles from the river, was the most remote inland point it had reached. During the late epidemic at Shreveport, a number of deaths occurred, according to the report of the Howard Association, at points outside the city limits—distances from the city not given. The places named are Caddo Parish, Marshall, Greenwood, and Summer Grove.

The same accurate observer (Dr. Drake,) remarks that yellow fever is eminently a disease of cities rather than of rural districts, and of villages rather than of scattered country dwellings. It has been shown that towns of small population are less liable to suffer than larger ones, and the same town within the yellow-fever zone, as its population increases, is more likely to suffer than when its population was less. Hence density of population, or proximity of numerous individuals approaching to crowding, is believed to be a factor of no small influence in the propagation and spread of the disease.



Its appearance in a locality is generally coincident with bilious intermittents, and the first cases are said always to occur near the water in the lowest and most insalubrious places.

It has been observed that its epidemical limits coincide with the range of the growth of the live-oak, the cypress, and the long mosses. Certainly the regions of our country most frequented by this disease are particularly low and flat, with numerous rivers and much marsh and swamp lands, as may be inferred from the localities and their elevations marked on the map. These low lands are to a considerable extent covered with the cypress, long-leaved pine, and other indigenous trees, with thick undergrowth when in an unredeemed or natural state. The northern limit of the growth of the cypress is not much north of Norfolk.

Yellow fever has been considered by nearly all writers a distinct disease from the autumnal remittent fevers of the temperate zone. All agree that it is indigenous at Vera Cruz on the Gulf of Mexico. When we examine into the climatic conditions of this locality, nothing special or satisfactory as an explanation of the peculiarities and origin of the disease has been discovered.

Protracted average high temperature is a constant factor there, but this of itself is deemed insufficient. The time has, perhaps, not come, if it ever does, for the discovery of all the elements entering into its development.

No doubt there are numerous undiscovered factors and conditions, essential to its existence and present in varying intensity, in different years, and which greatly add to its rapid spread and virulence. The mortality from the disease at the same place is much greater in some seasons when the conditions of heat and moisture are apparently the same. Again, extreme heat and dryness stop the epidemic, as do heavy and protracted rains.

As we have already stated, the conditions of long-continued heat, averaging over  $75^{\circ}$  throughout the twenty-four hours, and great humidity exist almost constantly during the summer in the Gulf States. Occasionally during the summer season, for months together, this condition of high temperature, but with less moisture, may exist in many of the coast cities of our country, as far north as Boston, and yet rarely ever are these cities visited by this disease in an epidemic form.

Is the exemption of these more northern coast cities due alone to climatic conditions, or are they in part exempted by sanitary and quarantine regulations? Yellow fever is almost annually reported on vessels at the quarantine stations, where it is fortunately arrested and prevented from entering the cities. In the table of the localities where the disease has prevailed, no distinction has been made between the city proper and the quarantine stations which, in a more careful study, should be made.

The average annual distribution of moisture throughout our country is made manifest by a glance at Chas. A. Schott's Tables and Results of



the Precipitation in Rain and Snow, published in 1872 by the Smithsonian Institution, a most valuable contribution to knowledge in this direction. The humidity in the atmosphere is relative to the season, and, as is well known, the absolute humidity is greater in the summer than in the winter, warm air having a greater capacity to contain moisture than cold air, as the following table from Professor Guyot will show. This table expresses, in troy grains, the weight of vapor contained in a cubic foot of saturated air at the stated temperatures of Fahrenheit:

Temperature of air.	Vapor in grains.	Temperature of air.	Vapor in grains.	Temperature of air.	Vapor in grains.
0°	0.545	63°	6.361	80°	10.949
5	0.678	64	6.575	81	11.291
10	0.841	65	6.795	82	11.643
20	1.298	66	7.021	83	12.005
30	1.968	67	7.253	84	12.376
32	2.126	68	7.493	85	12.756
40	2.862	69	7.739	86	13.146
45	3.426	70	7.992	87	13.546
50	4.089	71	8.252	88	13.957
55	4.860	72	8.521	89	14.378
56	5.028	73	8.797	90	14.810
57	5.202	74	9.081	91	15.254
58	5.381	75	9.372	92	15.709
59	5.566	76	9.670	93	16.176
60	5.756	77	9.977	94	16.654
61	5.952	78	10.292	95	17.145
62	6.154	79	10.616	96	17.648

To see how far the conditions of a higher than ordinary average of temperature and a greater degree of humidity may have existed in Memphis and Shreveport during the prevalence of the epidemic of the past summer, we have been enabled, through the courtesy of General Myer, to tabulate the returns, nearly complete, made from Memphis to the United States Signal Bureau for the months of August, September, October, and November, 1872 and 1873. The former year, being healthy at this place, is included for the purpose of contrast. The meteorological tables for Shreveport are compiled from the observations furnished by Dr. J. L. Moore, of Shreveport, the regular observer for the Smithsonian Institution at that point. In addition to the ordinary observations, Dr. Moore gives the daily number of deaths occurring from yellow fever, which, for convenience, is placed in a parallel column on the side of the meteorological table, and on the line of the other daily observations. For Shreveport we are not able to give the observations in 1872 for contrast:

TABLE SHOWING THE METEOROLOGICAL CONDITIONS OBSERVED AT SHREVEPORT, LA., DURING THE YELLOW-FEVER EPIDEMIC OF 1873.

Compiled from the Register of Meteorological Observations under the direction of the Smithsonian Institution, J. L. Moore, M. D., Observer, to which is added the daily Number of Deaths from Yellow Fever.

[SHREVEPORT: County of Caddo, State of Louisiana; latitude, 32° 30' north; longitude, 93° 45' west; height above the sea-level, 228.52 feet.]

Day of month.	Thermometer in the open air.				Rain-fall, inches.	Amount of cloudiness.			Winds.*					Barometer reduced to freezing-point.	Relative humidity or fraction of saturation.†			Deaths from yellow fever.	
	7 a. m.	2 p. m.	9 p. m.	Mean.		7 a. m.	2 p. m.	9 p. m.	7 a. m.		2 p. m.		9 p. m.						
									Direction.	Force.	Direction.	Force.	Direction.	Force.					
Aug. 1	79	88	81	82½	....	4-4	1-2	3-4	S.W.	5	S.	5	0	0	30.111	.86	.55	.83	
2	80	89	84	84½	....	1-4	4-4	0	S.W.	6	0	0	0	0	30.068	.82	.53	.79	
3	80	90	85	85	.01	1-2	3-4	1-4	S.W.	7	N.W.	5	N.	1	30.083	.82	.53	.79	
4	80	80	79	79½	.40	3-4	4-4	1-4	E.	6	N.E.	12	0	0	30.132	.78	.78	.87	
5	74	84	78	78½	....	3-4	3-4	0	N.E.	8	N.E.	7	N.E.	5	30.135	.76	.53	.69	
6	74	87	81	80½	....	1-4	1-2	1-4	N.E.	6	N.E.	7	N.	5	30.165	.72	.45	.70	
7	80	81	80	80½	....	4-4	4-4	1-2	0	0	E.	5	0	0	29.996	.75	.55	.82	
8	78	88	77	81	.13	0	4-4	3-4	S.E.	1	0	0	E.	2	29.994	.73	.52	.77	
9	77	87	81	81½	.11	1-4	3-4	3-4	E.	5	E.	7	E.	1	30.055	.82	.55	.78	
10	76	87	80	81	....	4-4	3-4	4-4	E.	2	E.	8	E.	1	30.102	.91	.58	.82	
11	81	90	83	84½	....	1-2	3-4	0	N.E.	4	S.E.	8	N.	4	30.031	.78	.60	.71	
12	82	91	81	84½	....	3-4	3-4	4-4	N.	2	E.	5	E.	4	30.038	.70	.57	.78	
13	78	91	85	84½	....	3-4	3-4	1-2	S.W.	6	S.W.	7	S.W.	2	30.014	.86	.54	.72	
14	80	90	76	82	.60	3-4	3-4	1-2	0	0	S.W.	7	0	0	29.971	.82	.56	.91	
15	76	91	77	81½	.24	3-4	3-4	4-4	N.	4	N.	2	S.E.	8	29.895	.94	.60	.91	
16	75	85	79	79½	....	4-4	4-4	3-4	N.E.	4	N.E.	4	0	0	29.959	.90	.68	.87	2
17	76	82	79	79	.05	4-4	4-4	1-2	N.	8	N.	5	N.E.	5	29.937	.91	.83	.78	
18	78	85	79	80½	....	1-2	1-4	0	N.E.	5	N.E.	6	0	0	30.062	.69	.41	.70	
19	77	85	79	80½	....	1-4	1-2	1-4	N.E.	1	E.	4	0	0	30.043	.69	.44	.66	
20	76	85	81	80½	....	3-4	1-2	1-4	E.	1	S.E.	4	S.E.	4	29.961	.73	.47	.67	2
21	76	82	79	79	....	1-4	1-4	0	S.W.	1	N.	7	E.	2	29.969	.77	.83	.78	1
22	79	86	79	81½	....	1-2	3-4	0	0	0	E.	7	N.E.	2	30.029	.74	.48	.74	4
23	76	86	79	80½	....	3-4	3-4	0	E.	2	E.	5	0	0	30.076	.82	.58	.82	
24	81	88	84	84½	....	0	1-2	1-4	S.	2	N.W.	5	0	0	30.107	.70	.49	.75	2
25	81	90	83	84½	....	0	1-2	1-2	S.	1	N.E.	4	0	0	30.037	.74	.50	.75	2
26	79	90	77	82	....	3-4	3-4	3-4	W.	6	N.	4	S.W.	2	30.020	.78	.53	.82	1
27	78	91	86	85	....	0	1-2	0	S.W.	1	N.E.	1	0	0	30.016	.78	.51	.68	3
28	78	91	81	83½	....	1-4	1-4	1-4	W.	4	N.W.	2	S.E.	2	30.053	.73	.54	.70	4
29	79	84	80	83	.65	0	3-4	0	S.W.	1	0	0	S.E.	4	30.118	.74	.68	.87	4
30	80	91	84	85	....	0	1-2	0	S.	2	S.	5	S.W.	6	30.175	.82	.48	.64	2
31	80	89	82	83½	....	0	1-2	1-4	0	0	0	0	S.E.	1	30.133	.74	.50	.71	4

REMARKS.—Normal summer-heat for this latitude prevailed during the month; mean temperature 82°.56; highest at 2 p. m., 91° on the 12th, 13th, 15th, 27th, 28th, and 30th; lowest, 80° on the 4th. Force of wind remarkably uniform and moderate, scarcely rising at any time above the degree of "gentle." *Yellow fever*: The first death from yellow fever in Shreveport this summer was observed on the 20th day of August, which date proved the beginning of the epidemic of 1873. Total deaths from the disease during the month, 29.

\* The force is estimated and registered by figures from 1 to 10, as in the first column of the following table. The figures in the last column, expressing the number of miles per hour, are used in the above.

1. Very light breeze.....	2 miles per hour.	6. Gale.....	45 miles per hour.
2. Gentle breeze.....	4 do.	7. Strong gale.....	60 do.
3. Fresh breeze.....	12 do.	8. Violent gale.....	75 do.
4. Strong wind.....	25 do.	9. Hurricane.....	90 do.
5. High wind.....	35 do.	10. Most violent hurricane.....	100 do.

† The numbers under the head of "Relative humidity" denote the percentage of saturation; full saturation being indicated by 1, and half saturation by 0.5.



Table showing the Meteorological Conditions observed at Shreveport, La., during the Yellow-Fever Epidemic of 1873—Continued.

Day of month.	Thermometer in the open air.				Rain-fall, inches.	Amount of cloudiness.			Winds.						Barometer reduced to freezing-point.	Relative humidity or fraction of saturation.			Deaths from yellow fever.
									7 a. m.		2 p. m.		9 p. m.						
	7 a. m.	2 p. m.	9 p. m.	Mean.		7 a. m.	2 p. m.	9 p. m.	Direction.	Force.	Direction.	Force.	Direction.	Force.		Mean.	7 a. m.	2 p. m.	
Sept. 1	79	86	83	82.3	....	0	3.4	1.4	S. W.	4	S	5	0	0	30.071	.78	.58	.71	6
2	78	91	81	83.3	....	1.2	1.2	4.4	S. W.	7	S	7	7	7	30.042	.82	.45	.70	5
3	79	98	83	84.3	....	3.4	3.4	1.4	S. W.	6	S	10	2	4	30.022	.82	.45	.60	5
4	78	92	82	84.3	....	3.4	1.2	0	S. W.	5	S	7	7	4	30.052	.82	.43	.63	2
5	79	91	85	85	....	1.4	1.4	1.2	S. W.	2	N. W.	5	0	0	30.127	.82	.36	.64	4
6	77	91	79	82.3	....	3.4	1.2	3.4	N.	1	N. E.	6	N.	14	30.167	.77	.45	.74	7
7	74	83	72	76.3	.01	1.2	3.4	3.4	N.	7	N. E.	12	N. E.	8	30.214	.76	.67	.71	10
8	68	79	71	72.3	....	1.2	1.2	1.4	N. E.	8	E.	10	N. E.	4	30.178	.70	.58	.62	11
9	67	85	77	76.3	....	1.4	3.4	3.4	N. E.	5	N. E.	5	0	0	30.074	.69	.51	.73	8
10	75	87	79	80.3	....	1.2	1.2	1.4	N. E.	1	N. E.	4	S. E.	2	30.065	.77	.69	.70	15
11	77	87	81	81.3	....	1.4	1.2	1.2	N. E.	1	E.	4	S. E.	4	30.050	.73	.65	.59	18
12	77	76	73	75.3	....	4.4	4.4	4.4	0	0	S. E.	6	S. E.	5	29.999	.75	.82	.90	15
13	69	76	70	71.3	1.56	4.4	1.4	0	S. W.	1	N. E.	1	N. E.	10	30.076	.90	.64	.80	26
14	61	69	64	64.3	.06	0	0	0	N. E.	7	N. E.	7	N. E.	4	30.140	.71	.56	.78	24
15	64	81	69	71.3	....	0	0	0	N. E.	2	S. E.	4	E.	1	30.121	.68	.41	.85	31
16	67	83	73	74.3	....	0	1.4	0	E.	2	E.	6	0	0	30.107	.74	.30	.67	24
17	69	85	74	76	....	0	1.4	0	0	0	E.	2	0	0	29.978	.70	.41	.76	18
18	70	87	70	78.3	....	0	1.4	0	E.	1	N. E.	1	0	0	29.899	.80	.45	.74	19
19	75	87	72	78	....	0	1.2	0	N. E.	2	N. E.	1	N. E.	8	29.939	.72	.49	.76	16
20	63	77	69	69.3	....	0	1.4	0	N. E.	6	E.	7	N. E.	4	30.028	.62	.46	.56	14
21	63	80	69	70.3	.01	3.4	3.4	0	E.	4	E.	7	N. E.	6	30.021	.67	.51	.75	15
22	65	71	68	68	.05	4.4	1.2	1.4	0	0	N. E.	10	N. E.	2	30.002	.78	.85	.95	18
23	66	78	68	70.3	....	0	3.4	0	N. E.	5	N.	7	N.	5	29.970	.89	.54	.84	11
24	62	85	74	73.3	....	0	1.2	0	S. E.	2	S. W.	3	S.	8	29.866	1.00	.47	.76	10
25	70	87	75	77.3	....	0	1.2	0	S.	4	S. E.	4	S. E.	2	29.935	1.00	.62	.77	14
26	73	83	76	77.3	....	1.4	3.4	4.4	S. E.	6	S.	5	S. E.	5	29.988	.85	.83	.82	15
27	75	82	74	77	.48	4.4	4.4	1.2	S. E.	10	S. S. E.	4	S. S. E.	5	29.981	.80	.75	1.00	20
28	77	87	80	81.3	....	3.4	1.2	1.2	S. E.	2	S.	4	S.	6	29.928	.91	.62	.82	11
29	72	76	69	72.3	.12	4.4	4.4	4.4	N. E.	13	N. W.	6	N. E.	13	30.066	.95	.82	.95	7
30	64	74	64	67.3	....	4.4	1.4	0	N. E.	7	N. E.	6	N. E.	7	30.146	.73	.76	.73	7

REMARKS.—Extremes of temperature during this month: Highest at 2 p. m., 92°, on the 4th; lowest, 69°, on the 14th; mean for the month, 76°.4. Humidity appears much greater than last September. Wind variable in force and direction. Yellow fever: Heavy mortality from yellow fever during this month, proving most fatal about the middle of the month, averaging seventy-five per cent. Total deaths from the disease, 406.

Table showing the Meteorological Conditions observed at Shreveport, La., during the Yellow-Fever Epidemic of 1873—Continued.

Day of month.	Thermometer in the open air.				Rain-fall, inches.	Amount of cloudiness.			Winds.						Barometer reduced to freezing-point.	Relative humidity or fraction of saturation.			Deaths from yellow fever.
	7 a. m.	2 p. m.	9 p. m.	Mean.		7 a. m.	2 p. m.	9 p. m.	7 a. m.		2 p. m.		9 p. m.			Mean.	7 a. m.	2 p. m.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.					
Oct. 1	61	75	67	67½	.....	0	2.4	1.2	N. E.	5	N.	5	N. E.	7	30.083	.55	.44	.69	8
2	65	79	71	71½	.....	3.4	0	0	N. E.	2	N. W.	2	N. W.	1	30.090	.73	.43	.80	11
3	69	84	77	76½	.....	0	1.2	0	N. E.	2	E.	2	S. E.	1	30.028	.75	.54	.69	16
4	73	88	80	80½	.....	0	1.2	0	S.	1	W.	0	0	0	29.953	.72	.40	.70	7
5	74	88	80	80½	.....	0	3.4	1.4	0	0	N. W.	2	0	0	29.915	.72	.43	.70	11
6	61	66	57	61½	.....	1.4	0	0	N.	18	N. E.	14	N.	10	30.137	.61	.32	.47	12
7	54	64	59	59	.....	0	0	0	N. E.	4	N.	5	0	0	30.136	.55	.34	.70	6
8	54	63	63	61½	.....	3.4	3.4	0	0	0	E.	6	S. E.	2	30.116	.74	.56	.67	12
9	55	77	69	67	.....	0	1.2	1.2	S. E.	1	S. E.	2	S. E.	2	30.129	.81	.61	.75	10
10	64	79	69	70½	.....	0	3.4	0	0	0	E.	5	0	0	30.178	.78	.47	.75	2
11	65	87	75	75½	.....	4.4	1.2	0	0	0	N. W.	5	0	0	30.184	.78	.45	.68	3
12	66	74	65	68½	.....	0	0	0	0	0	N. E.	10	N. E.	1	30.217	.54	.29	.49	3
13	57	73	61	63½	.....	0	0	0	N. E.	1	E.	2	E.	5	30.163	.63	.24	.71	7
14	56	74	65	65	.....	0	0	0	0	0	E.	10	S. E.	4	30.186	.69	.36	.68	7
15	62	79	73	71½	.....	3.4	1.2	1.4	S. E.	1	S. E.	10	S. E.	4	30.277	.72	.51	.63	8
16	70	77	73	73½	.....	.05	4.4	1.2	S. E.	2	S.	4	S. E.	1	30.190	.90	.77	.81	5
17	69	80	75	74½	.....	.01	1.2	3.4	S. E.	4	S. W.	3	S. E.	6	30.040	.80	.87	.78	2
18	67	79	59	65½	.....	1.17	4.4	1.2	N.	12	N.	8	N.	14	30.106	.95	.53	.70	2
19	50	60	52	54	.....	0	0	0	N.	15	N.	18	N. W.	2	30.253	.65	.29	.60	7
20	46	70	56	57½	.....	0	0	0	N. W.	2	N. W.	7	N. E.	2	30.073	.77	.36	.81	5
21	49	71	65	61½	.....	0	1.2	0	S. E.	2	S.	13	S.	7	29.860	.78	.49	.63	3
22	63	68	50	60½	.....	1.00	4.4	4.4	S. E.	2	S. W.	13	N. W.	7	29.969	.89	.95	1.00	4
23	41	49	47	45½	.....	1.06	4.4	0	N.	8	N. E.	8	N. E.	4	30.193	.91	.93	.85	6
24	39	53	48	46½	.....	.01	1.4	1.4	N. E.	4	S. E.	4	E.	6	30.246	.91	.80	1.00	3
25	48	62	63	57½	.....	.85	4.4	4.4	E.	5	S. E.	4	S. E.	4	30.133	1.00	.83	.94	2
26	68	78	61	69	.....	4.4	4.4	4.4	S.	5	S. W.	5	N. W.	12	29.936	1.00	.91	.77	5
27	45	60	54	53	.....	3.4	1.4	0	N. W.	4	N.	5	S. W.	4	30.088	.84	.39	.61	5
28	37	47	40	41½	.....	0	0	0	N.	7	N. W.	19	N. W.	8	30.454	.62	.28	.56	4
29	33	55	47	45	.....	0	0	0	.....	.....	S. W.	2	S.	4	30.376	.89	.62	.48	3
30	42	67	53	54	.....	0	0	0	S. W.	4	W.	10	N.	1	30.170	.74	.60	.86	3
31	45	57	47	49½	.....	0	0	0	N.	8	N. E.	10	N. E.	4	30.341	.61	.31	.62	4

REMARKS.—Extremes of temperature: Highest at 2 p. m., 88°, on the 4th; lowest, 47°, on the 28th; mean for the month, 62°, 68. Variable winds; fluctuating barometer; thunder-storm on the 26th of the month; greatest force of the wind sixty miles an hour. *Yellow fever*: An abatement of the yellow fever, as shown by mortality, was noticed about the middle of September and continued through this month, making a difference of 210 in deaths. Total deaths from yellow fever for November, 196.



Table showing the Meteorological Conditions observed at Shreveport, La., during the Yellow-Fever Epidemic of 1873—Continued.

Day of month.	Thermometer in the open air.				Rain fall, inches.	Amount of cloudiness.			Winds.						Barometer reduced to freezing-point.	Relative humidity or fraction of saturation.			Deaths from yellow fever.
	7 a. m.	2 p. m.	9 p. m.	Mean.		7 a. m.	2 p. m.	9 p. m.	7 a. m.		2 p. m.		9 p. m.			7 a. m.	2 p. m.	9 p. m.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.					
Nov. 1	44	66	58	56	...	1.2	3.4	4.4	E.	4	S. E.	5	S. E.	1	30.313	.60	.59	.70	1
2	53	56	58	55	1.18	3.4	4.4	4.4	N. E.	5	S. E.	2	N. E.	6	30.163	.80	1.00	1.00	...
3	54	57	54	55	.28	4.4	4.4	4.4	N. E.	7	N. E.	2	N. E.	6	30.182	1.00	.87	.93	2
4	54	60	58	57	.32	4.4	4.4	4.4	N. E.	6	N. W.	2	N. W.	2	30.074	1.00	.88	.94	...
5	56	60	58	58	.07	4.4	4.4	4.4	N.	4	0	0	N.	4	30.106	1.00	.88	.94	1
6	55	68	61	61	...	3.4	3.4	0	N. W.	6	N. W.	2	0	0	30.042	.93	.65	.88	2
7	51	73	62	62	...	0	0	0	W.	2	S. W.	6	W.	2	30.016	1.00	.46	.77	...
8	55	71	56	60	...	0	0	0	N.	4	N.	1	N.	4	30.230	.80	.37	.81	2
9	47	74	60	60	...	0	0	0	0	0	W.	2	0	0	30.224	.92	.29	.65	...
10	51	78	66	65	...	0	0	0	0	0	W.	3	S.	8	30.116	.86	.29	.50	1
11	56	79	62	65	...	1.4	0	0	S. W.	7	S. W.	6	N. W.	4	30.000	.60	.35	.46	...
12	47	54	48	49	...	1.4	0	0	N.	13	N. W.	16	N. W.	4	31.271	.48	.32	.36	...
13	35	59	50	48	...	0	0	0	0	0	S. W.	4	S. W.	7	30.179	.70	.47	.80	...
14	42	67	58	55	...	1.4	3.4	3.4	S.	2	S.	1	S.	4	30.171	.74	.33	.56	...
15	55	69	64	62	...	3.4	4.4	4.4	S.	4	S. W.	6	S.	6	30.135	.87	.65	.83	...
16	65	74	66	68	...	4.4	1.2	0	S. W.	5	S. W.	3	N. W.	30	22.966	.90	.59	.19	...
17	51	73	68	64	...	1.2	0	1.4	N. W.	6	N. W.	20	S. W.	4	22.623	.52	.17	.22	...
18	53	58	48	53	...	3.4	0	3.4	N. W.	4	N. W.	30	N.	20	30.033	.67	.96	.51	...
19	54	53	58	55	...	0	0	0	N. W.	1	N. W.	13	0	0	30.271	.45	.24	.64	...
20	35	60	53	49	.05	0	3.4	4.4	S. E.	2	S.	5	S.	4	30.179	.70	.20	.73	...
21	49	64	61	58	2.50	4.4	3.4	4.4	E.	2	S. E.	2	S. E.	6	33.135	.92	.67	.77	...
22	60	66	64	63	3.85	4.4	4.4	4.4	S. E.	4	S. E.	2	N. E.	2	22.853	.94	.84	1.00	...
23	62	62	59	61	...	4.4	4.4	4.4	N. E.	10	N. E.	11	N.	4	22.808	.88	.94	.94	...
24	47	50	48	48	...	4.4	4.4	0	N.	11	N. W.	5	W.	4	30.119	.92	.72	.85	...
25	66	63	55	61	...	1.4	3.4	1.2	W.	4	N. W.	11	0	0	30.168	.69	.33	.50	...
26	45	63	55	54	...	3.4	3.4	1.2	S. E.	2	S.	6	S.	12	22.930	.76	.47	.68	...
27	52	63	57	57	...	4.4	1.2	4.4	S.	5	S.	1	0	0	22.985	1.00	.67	.81	...
28	45	46	45	45	...	4.4	4.4	4.4	N. E.	11	N. E.	5	E.	4	30.345	.53	.47	.53	...
29	40	59	53	50	...	4.4	0	1.2	E.	0	S. E.	4	S. E.	2	30.355	1.00	.48	.73	...
30	51	70	63	61	...	0	4.4	1.4	S.	6	S.	6	S.	8	30.275	1.00	.61	.76	...

REMARKS.—Mean temperature for the month, 57.45°; highest at 2 p. m., 79°, on the 11th; lowest, 46°, on the 28th; first frost, night of the 12th and 13th. *Yellow fever*: Yellow fever continued to abate, until the 10th of the month, when the last death occurred; total deaths from yellow fever for the month, 10.

## TABLE OF THE METEOROLOGICAL CONDITIONS OBSERVED AT MEMPHIS, TENN.

Compiled from the Reports of the Signal-Service, U. S. A., for Comparison

[MEMPHIS: County of Shelby, State of Tennessee; latitude 35° 07' north;

		Thermometer.				Amount of cloudiness.*						Wind.								Humidity, per cent.		
1872.																						

\* The letters "F," "H," and "S," indicate foggy, hazy, and smoky, respectively.

† The barometer-readings here given, and in the subsequent tables, are at the temperature given for the corresponding days, and not, as in the preceding tables, reduced to freezing-point.



DURING THE AUGUSTS, SEPTEMBERS, OCTOBERS, AND NOVEMBERS OF 1872 AND 1873.

of Conditions during the Absence and the Prevalence of Yellow Fever.

longitude  $90^{\circ} 07'$  west; height above the sea-level, 260 feet.)

		Thermometer.						Amount of cloudiness.						Wind.								Humidity, per cent.			
						Rainfall, inches.												Barometer.							
		7.35 a. m.	4.35 p. m.	11 p. m.	Mean.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Mean.	7.35 a. m.	4.35 p. m.	11 p. m.				
1873.																									
1	70	85	69	74.66	2.94	4.4	...	3.4	1.4	1.4	4.4	...	S. S. W.	2.5	S. S. W.	6	S. S. W.	2	30.06	1.00	.68	.94			
2	70	89	79	79.33	...	1.4	1.4	1.4	1.4	1.4	0	0	0	S. W.	2	S. W.	0	0	30.03	.94	.59	.86			
3	...	82	73	77.00	...	0	...	1.4	1.4	1.4	0	0	0	N. E.	12	N. E.	5	30.02	...	.59	.85				
4	68	79	69	72.00	...	0	1.4	0	1.4	0	1.4	0	0	N. W.	12	N. E.	5	30.15	.81	.44	.74				
5	69	82	72	74.33	...	0	0	1.4	1.4	1.4	0	0	0	N. E.	12	N. E.	5	30.15	.81	.44	.74				
6	...	87	76	74.00	...	0	1.4	2.4	1.4	1.4	1.4	...	N. E.	12	N. E.	12	N. E.	3	30.15	.74	.42	.75			
7	72	81	73	75.66	...	2.4	0	1.4	2.4	1.4	0	1.4	...	N. E.	12	S. E.	5	S. E.	2	30.05	.75	.51	.81		
8	75	89	74	80.33	...	0	0	1.4	1.4	1.4	0	1.4	...	E.	...	N. E.	3	N. E.	1	30.01	.80	.66	.90		
9	77	91	78	82.00	...	...	...	1.4	1.4	1.4	0	1.4	...	S. E.	...	S. W.	5	E.	1	30.09	.85	.52	.90		
10	...	82	80	86.00	...	...	...	1.4	1.4	1.4	0	1.4	...	0	0	N. W.	5	S. E.	1	30.05	.81	.50	.90		
11	81	91	82	84.66	...	...	...	1.4	1.4	1.4	2.4	0	0	0	0	N. W.	6	0	0	30.03	...	.56	.91		
12	79	93	82	84.66	...	...	...	2.4	1.4	1.4	1.4	0	0	0	0	E.	4	N. W.	2	29.67	.82	.50	.82		
13	78	86	76	80.00	1.09	2.4	2.4	1.4	1.4	1.4	2.4	0	0	0	0	N. W.	5	N. W.	2	29.92	.82	.45	.78		
14	75	85	75	78.33	...	...	...	1.4	1.4	1.4	0	0	0	0	0	S. W.	4	W.	1	29.96	.86	.68	.91		
15	72	87	79	79.33	...	...	...	...	...	...	1.4	0	0	0	0	N. E.	11	W.	0	29.66	.76	.41	.76		
16	73	79	74	75.33	...	...	...	...	...	...	1.4	0	0	0	0	N. E.	4	N. W.	4	29.89	.75	.48	.77		
17	...	82	74	78.00	...	...	...	...	...	...	4.4	...	...	...	...	W.	4	N. W.	11	29.92	.90	.77	.85		
18	71	81	71	74.00	...	...	...	...	...	...	1.4	1.4	1.4	0	0	0	N. W.	12	N. W.	5	29.98	...	.55	.81	
19	69	85	75	76.33	...	...	...	...	...	...	0	0	0	0	0	N. N.	12	N. W.	2	30.05	.70	.41	.70		
20	71	86	74	77.00	...	...	...	...	...	...	1.4	1.4	1.4	0	0	N. E.	12	N. W.	2	30.04	.70	.47	.72		
21	71	88	76	78.33	...	...	...	...	...	...	1.4	1.4	1.4	1.4	0	N. E.	2	N. W.	2	29.93	.70	.31	.72		
22	71	86	75	77.33	...	...	...	...	...	...	2.4	1.4	1.4	1.4	0	S. E.	2	N. E.	6	30.01	.85	.51	.81		
23	73	89	79	80.33	...	...	...	...	...	...	1.4	1.4	1.4	1.4	0	E.	1	E.	6	30.09	.85	.49	.73		
24	78	92	81	83.66	...	...	...	...	...	...	S. 1.4	1.4	1.4	1.4	0	S. E.	1	S. W.	5	0	30.09	.86	.48	.67	
25	80	92	82	84.00	...	...	...	...	...	...	0	0	1.4	1.4	0	N. E.	1	W.	4	N.	2	30.09	.78	.45	.83
26	79	94	83	85.33	...	...	...	...	...	...	0	1.4	1.4	1.4	0	S. 4.	4	S. W.	5	S. W.	9	29.99	.82	.43	.75
27	77	93	75	81.66	...	...	...	...	...	...	2.4	1.4	0	2.4	4.4	N. N.	2	4	S. E.	5	29.96	.86	.43	.81	
28	75	88	77	80.00	...	...	...	...	...	...	S. 1.4	1.4	1.4	0	0	N. 4.	4	N. W.	12	N. E.	4	29.95	.85	.49	.68
29	72	83	78	79.33	...	...	...	...	...	...	S. 1.4	1.4	1.4	1.4	0	N. E.	3	N. W.	6	N.	3	30.01	.80	.46	.69
30	77	91	78	82.33	...	...	...	...	...	...	0	0	1.4	1.4	S.	0	1	W.	5	0	0	30.06	.77	.34	.69
31	75	93	82	84.00	...	...	...	...	...	...	0	0	1.4	1.4	0	S. W.	1	S. W.	5	S. W.	6	30.11	.77	.34	.69

[illegible]

Table of Meteorological Conditions observed at Memphis, Tenn., during the August,

1872.	Thermometer.				Rain-fall, inches.	Amount of cloudiness.						Wind.					Humidity per cent.								
	7. 35 a. m.	4. 35 p. m.	11 p. m.	Mean.		Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	7.35 a.m.	4.35 p.m.	11 p. m.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Barometer.	Mean.	7. 35 a. m.	4. 35 p. m.	11 p. m.
Oct.	7. 35 a. m.	4. 35 p. m.	11 p. m.	Mean.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Barometer.	Mean.	7. 35 a. m.	4. 35 p. m.	11 p. m.		
1	45	71	61	59.00	1.4	0	0	0	1.4	0	W.	1	N.W.	4	S.W.	8	30.21	.75	.26	.71					
2	56	78	66	66.66	2.4	2.4	0	0	0	0	S.	2	W.	2	S.	1	30.14	.74	.42	.71					
3	64	84	73	73.33	0	0	H.	0	0	0	S.W.	4	W.	2	S.	5	30.00	.76	.40	.71					
4	67	84	71	74.00	0	0	0	0	0	0	S.	2	W.	2	S.	5	30.12	.84	.40	.70					
5	65	83	70	72.66	1.96	2.4	2.4	0	2.4	1.4	H.	2	S.	2	S.	4	1	30.02	.73	.42	.70				
6	65	85	63	64.33	2.4	2.4	4.4	...	0	0	N.W.	1	N.W.	4	N.	12	30.95	.73	.94	.91					
7	56	70	58	61.33	1.4	1.4	0	1.4	0	0	N.E.	2	N.	4	N.	0	30.13	.87	.65	.80					
8	53	72	58	61.00	0	1.4	0	0	1.4	0	N.E.	4	N.E.	4	N.	0	30.13	.79	.34	.81					
9	52	76	63	63.66	0	0	0	2.4	S.	2.4	N.E.	4	N.	4	N.W.	2	30.13	.86	.41	.88					
10	53	58	46	52.33	0	0	S.	0	0	0	W.	16	N.	16	N.	4	30.31	.55	.42	.84					
11	42	59	48	49.66	0	0	0	0	0	0	N.	4	N.	4	N.	1	30.29	.66	.43	.77					
12	38	65	53	52.00	0	0	0	0	0	0	N.	1	N.	4	N.W.	1	30.11	.90	.38	.66					
13	51	67	56	58.00	0	0	H.	0	0	0	N.W.	1	N.W.	4	N.W.	1	30.11	.85	.31	.66					
14	42	55	44	47.00	0	0	H.	0	S.	0	N.W.	6	N.W.	4	N.W.	0	30.69	.72	.28	.51					
15	43	68	61	57.33	0	0	4.4	...	0	2.4	N.W.	8	N.W.	12	N.W.	0	30.22	.63	.33	.75					
16	59	70	64	64.33	1.4	2.4	H.	4.4	1.4	2.4	S.	12	S.W.	4	S.	12	30.02	.66	.38	.45					
17	59	75	63	65.66	2.4	2.4	H.	1.4	S.	0	S.	1	S.W.	4	S.W.	4	30.12	.61	.61	.78					
18	53	71	55	59.66	F.	0	0	0	0	0	N.W.	4	N.W.	4	S.W.	1	30.21	.81	.51	.84					
19	47	71	55	57.66	F.	0	0	0	0	0	N.W.	1	N.	3	0	0	30.25	.93	.29	.74					
20	49	73	56	59.33	F.	0	0	2.4	0	1.4	0	0	S.	2	0	0	30.21	.92	.25	.74					
21	53	74	65	64.00	.02	S.	4.4	1.4	2.4	4.4	...	E.	3	N.	4	S.E.	12	30.14	.85	.31	.68				
22	63	64	54	60.33	7.4	4.4	...	4.4	...	...	N.	2	N.E.	8	N.	12	30.14	.66	.51	.89					
23	51	58	51	53.33	.05	4.4	4.4	...	4.4	...	N.	8	N.	12	N.	4	30.14	.94	.94	.86					
24	46	63	55	54.66	S.	2.4	0	2.4	1.4	0	N.	4	N.	7	N.	5	30.29	.85	.59	.72					
25	48	64	53	55.00	S.	0	0	2.4	S.	0	N.W.	4	N.	7	N.	4	30.24	.76	.51	.68					
26	45	67	53	55.00	0	0	0	0	0	0	N.W.	0	N.W.	2	N.E.	3	30.14	.85	.35	.75					
27	47	70	56	57.66	S.	0	0	H.	S.	0	0	0	N.W.	2	0	0	30.07	1.00	.41	.79					
28	49	72	60	60.33	S.	0	0	0	0	1.4	N.E.	1	E.	12	E.	8	30.07	.84	.48	.80					
29	56	66	65	62.33	2.4	2.4	4.4	...	2.4	0	S.E.	5	S.E.	12	S.E.	8	30.14	.78	.34	.44					
30	56	61	49	55.33	2.4	2.4	4.4	...	2.4	0	S.E.	4	N.W.	12	N.W.	0	30.09	.51	.45	.53					
31	38	61	51	50.00	.27	4.4	...	0	1.4	S.	0	S.	4	N.W.	12	N.W.	1	30.18	.93	.40	.78				
Nov.																									
1	42	62	52	55.33	S.	1.4	2.4	2.4	2.4	0	E.	2	S.	3	S.W.	2	30.14	.82	.62	.86					
2	47	62	50	53.00	1.4	H.	0	0	S.	0	W.	8	W.	8	S.W.	2	30.09	.81	.22	.64					
3	41	65	55	53.66	S.	H.	0	H.	0	0	N.E.	6	E.	4	S.E.	4	30.13	.65	.35	.56					
4	51	62	64	59.00	S.	2.4	4.4	...	4.4	...	S.E.	4	E.	4	S.E.	12	30.00	.65	.51	.43					
5	54	57	47	52.66	.09	4.4	4.4	...	4.4	...	S.	4	N.W.	8	N.	4	30.12	.86	.75	.80					
6	43	47	47	45.66	.21	4.4	4.4	...	4.4	...	N.	1	N.	8	N.	0	30.16	.75	.77	.69					
7	41	57	52	50.00	4.4	4.4	1.4	H.	4.4	...	0	0	S.W.	2	0	0	30.11	.91	.54	.66					
8	47	60	55	54.00	4.4	1.4	3.4	4.4	...	...	N.E.	3	N.E.	8	N.E.	3	30.03	.77	.44	.59					
9	50	65	53	56.00	.01	1.4	0	0	1.4	S.	1.4	N.E.	8	N.E.	4	N.E.	5	30.92	.51	.48	.48				
10	51	58	56	55.00	4.4	4.4	4.4	...	4.4	...	S.E.	4	S.W.	4	S.	1	30.00	.92	.58	.56					
11	55	65	52	57.33	.35	4.4	1.4	3.4	4.4	...	S.W.	4	S.E.	2	N.	12	30.07	.86	.63	1.00					
12	43	55	51	49.66	1.4	0	0	2.4	4.4	...	N.	3	S.E.	16	E.	6	30.07	.83	.50	.59					
13	51	58	44	51.00	4.4	0	0	0	0	0	S.	8	N.W.	10	N.W.	16	24.97	.85	.31	.37					
14	31	39	31	33.66	0	0	H.	0	0	1.4	W.	8	N.W.	12	W.	6	30.30	.38	.31	.58					
15	26	36	31	31.00	2.4	1.4	0	2.4	0	0	W.	5	W.	14	S.W.	8	30.03	.75	.55	.58					
16	27	34	29	30.00	S.	2.4	S.	0	S.	0	W.	8	N.W.	4	N.	2	30.15	.52	.31	.52					
17	21	36	33	30.00	S.	1.4	0	2.4	S.	1.4	0	0	0	W.	3	0	0	30.24	.71	.46	.80				
18	27	40	33	33.33	F.	H.	S.	H.	S.	0	S.W.	1	S.W.	8	S.	3	30.42	.76	.39	.59					
19	33	52	47	44.00	S.	2.4	S.	3.4	4.4	...	S.	6	S.W.	7	N.	8	30.17	.51	.29	.41					
20	26	35	29	30.00	S.	0	0	1.4	0	1.4	N.	8	N.E.	3	S.	6	30.30	.63	.45	.44					
21	29	46	40	38.33	.01	S.	1.4	4.4	...	S.	0	S.	4	S.W.	4	S.W.	4	30.06	.55	.69	.55				
22	34	51	41	42.00	...	S.	0	0	0	0	W.	5	S.W.	4	S.	5	30.58	.71	.33	.56					
23	36	57	47	46.66	S.	0	H.	1.4	0	0	S.	5	S.E.	12	S.E.	4	30.23	.70	.30	.34					
24	48	65	61	58.00	4.4	4.4	3.4	1.4	4.4	...	S.	8	S.	13	S.	2	30.07	.63	.33	.65					
25	47	40	39	42.00	.90	4.4	4.4	...	4.4	...	N.W.	14	N.E.	2	N.E.	8	30.12	1.00	.82	.90					
26	40	48	41	43.00	4.4	4.4	S.	H.	S.	0	N.	3	N.E.	5	0	0	30.17	.61	.56	.73					
27	34	43	31	36.00	F.	0	0	0	0	0	N.	2	N.E.	5	N.	4	30.43	.61	.21	.38					
28	26	...	37	31.50	S.	H.	0	0	S.	H.	N.W.	1	...	...	N.W.	3	30.47	.63	...	.39					
29	18	26	23	22.33	0	0	0	0	S.	H.	N.W.	12	W.	7	N.	3	30.67	.52	.34	.46					
30	20	34	34	29.33	S.	1.4	S.	1.4	...	...	S.	2	S.	6	S.	14	30.25	.70	.34	.43					



Septembers, Octobers, and Novembers of the years 1872 and 1873—Continued.

Thermometer.					Rain-fall, inches.	Amount of cloudiness.						Wind.					Barometer.	Humidity, per cent.				
1873.	7.35 a. m.	4.35 p. m.	11 p. m.	Mean.		Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.		Velocity.	Mean.	7.35 a. m.	4.35 p. m.	11 p. m.
Oct.	7.35 a. m.	4.35 p. m.	11 p. m.	Mean.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Mean.	7.35 a. m.	4.35 p. m.	11 p. m.		
1	53	69	63	61.66	0	2-4	3-4	1-4	2-4	2-4	N.	6	N.E.	8	N.	4	30.10	.73	.56	.77		
2	63	73	65	67.00	4-4	2-4	2-4	2-4	0	0	E.	2	N.E.	2	N.	2	30.09	.77	.71	.94		
3	62	70	70	66.00	0	1-4	1-4	1-4	0	2-4	E.	2	S.W.	5	S.	2	30.03	.82	.54	.79		
4	70	76	66	70.66	0	2-4	0	1-4	0	0	S.W.	4	N.W.	10	N.	2	29.94	.79	.64	.81		
5	63	63	63	63.00	S.	2-4	0	0	4-4	4-4	N.	1	N.	16	N.	18	29.96	.77	...	.67		
6	46	56	47	49.66	2-4	1-4	0	1-4	0	0	N.	12	N.	6	N.	2	30.16	.69	.39	.62		
7	42	59	50	50.33	0	0	S.	0	0	0	N.	4	N.W.	4	N.W.	1	30.13	.75	.43	.64		
8	46	69	56	57.00	0	0	S.	1-4	S.	0	E.	0	N.W.	5	S.W.	1	30.12	.79	.43	.76		
9	52	68	60	60.00	S.	0	S.	0	S.	0	E.	0	N.W.	5	S.W.	1	30.11	.79	.56	.83		
10	52	76	64	64.89	0	0	S.	2-4	S.	1-4	E.	3	S.W.	6	S.W.	6	30.13	.88	.60	.78		
11	50	77	65	67.33	0	1-4	1-4	2-4	0	0	N.W.	3	N.W.	1	N.	1	30.20	.73	.38	.62		
12	54	66	55	58.33	0	0	S.	1-4	0	0	E.	1	N.W.	3	W.	18	30.17	.61	.35	.67		
13	46	69	54	56.33	S.	0	S.	0	S.	0	E.	1	N.W.	7	0	0	30.24	.69	.28	.65		
14	46	74	61	60.33	S.	0	S.	0	S.	0	S.E.	3	S.E.	5	S.W.	1	30.28	.75	.44	.73		
15	57	66	61	61.50	0	1-4	1-4	2-4	1-4	0	S.E.	6	S.E.	5	S.E.	4	30.26	.74	.54	.70		
16	67	80	70	72.33	1-4	2-4	1-4	2-4	0	0	S.	3	S.W.	10	S.E.	5	30.05	.78	.54	.66		
17	64	79	72	71.66	1-4	2-4	1-4	2-4	4-4	0	S.	16	N.W.	12	N.	5	30.09	.85	.75	.86		
18	55	57	52	54.66	1.76	4-4	4-4	4-4	1-4	0	N.W.	6	N.W.	12	N.	3	30.07	.86	.34	.69		
19	46	56	47	49.66	0	1-4	0	1-4	1-4	0	N.	4	N.W.	11	0	0	30.17	.76	.33	.76		
20	44	55	40	46.33	0	0	S.	0	0	0	N.W.	4	N.W.	11	0	0	30.07	.85	.33	.76		
21	40	63	56	53.00	0	0	S.	0	0	0	W.	1	S.W.	6	S.	6	29.91	.73	.42	.62		
22	58	68	57	61.00	1.12	1-4	2-4	4-4	4-4	...	N.	5	N.	10	N.	10	29.92	.81	.84	.87		
23	40	40	36	38.66	1.09	4-4	4-4	4-4	4-4	...	N.	5	N.	5	N.E.	2	30.29	.79	.62	.77		
24	38	55	47	46.66	...	4-4	4-4	4-4	4-4	...	N.E.	1	N.E.	4	E.	3	30.23	.92	.66	.93		
25	46	52	52	50.00	...	4-4	4-4	4-4	4-4	...	S.	12	S.W.	5	...	...	29.85	1.00	.94	...		
26	57	65	61	61.00	1.04	4-4	4-4	4-4	4-4	...	S.W.	11	N.W.	16	N.W.	2	29.97	.81	.39	.58		
27	38	56	50	48.00	...	4-4	4-4	4-4	4-4	...	W.	8	S.W.	11	N.W.	2	30.37	.89	.32	.79		
28	32	41	34	35.66	...	0	0	1-4	0	0	W.	0	S.W.	3	S.	2	30.35	.78	.29	.50		
29	30	48	42	40.00	...	0	0	S.	1-4	S.	1-4	S.W.	6	S.W.	6	S.	2	30.11	.57	.37	.76	
30	42	58	46	48.66	...	1-4	2-4	S.	1-4	S.	0	N.W.	8	N.W.	6	0	0	30.34	.55	.27	.71	
31	36	47	37	40.00	...	0	0	S.	0	0	N.W.	8	N.W.	6	0	0	30.34	.55	.27	.71		
Nov.																						
1	29	54	47	43.33	0	0	S.	1-4	S.	1-4	E.	3	S.E.	5	S.E.	5	30.39	.88	.26	.41		
2	45	59	47	53.66	1-4	1-4	4-4	4-4	4-4	1-4	S.	3	S.E.	2	N.W.	10	30.24	.84	.38	.84		
3	48	58	49	51.66	4-4	4-4	4-4	4-4	4-4	1-4	N.E.	4	N.E.	6	N.E.	2	30.24	.85	.47	.63		
4	46	53	52	50.33	4-4	4-4	4-4	4-4	4-4	...	N.E.	1	N.E.	4	N.E.	1	30.11	.76	.93	.95		
5	53	61	59	57.66	4-4	4-4	4-4	4-4	4-4	...	N.	3	N.E.	2	N.E.	1	30.12	.93	.76	.59		
6	52	64	55	57.00	4-4	4-4	4-4	4-4	4-4	...	N.	5	N.E.	6	N.E.	1	30.04	.72	.62	.36		
7	50	68	62	60.00	S.	1-4	S.	0	2-4	0	N.W.	8	S.W.	8	N.W.	6	29.96	.92	.51	.61		
8	48	65	53	55.33	S.	0	S.	0	S.	0	N.W.	2	N.	4	S.W.	4	30.18	.48	.26	.60		
9	49	69	56	57.00	S.	0	0	0	S.	0	S.W.	2	W.	2	0	0	30.18	.77	.27	.62		
10	48	74	59	60.33	S.	0	0	0	4-4	0	S.W.	18	S.W.	2	S.E.	2	30.95	.77	.31	.59		
11	54	75	60	63.00	S.	1-4	S.	0	S.	0	S.W.	6	W.	11	N.W.	12	29.97	.61	.32	.15		
12	45	46	40	43.66	4-4	4-4	4-4	4-4	4-4	...	N.W.	8	W.	8	N.W.	1	30.15	.60	.33	.47		
13	33	49	42	41.33	S.	1-4	S.	0	S.	0	W.	1	S.	8	S.	6	30.16	.69	.24	.42		
14	38	57	49	48.00	S.	0	S.	0	0	0	N.W.	1	N.W.	1	S.	6	30.13	.62	.31	.50		
15	50	68	64	60.00	1-4	2-4	S.	1-4	3-4	0	S.W.	6	S.W.	14	S.W.	8	30.07	.85	.55	.62		
16	62	62	62	62.00	1-4	4-4	4-4	4-4	4-4	...	S.W.	6	S.W.	14	S.W.	8	30.07	.85	.55	.62		
17	60	55	57	57.50	4-4	4-4	4-4	4-4	4-4	...	H.	27	N.W.	16	N.W.	20	30.28	.71	.34	.50		
18	47	43	33	41.00	4-4	4-4	4-4	4-4	4-4	...	N.W.	4	N.W.	12	W.	2	30.16	.63	.29	.59		
19	26	36	32	31.33	S.	0	S.	0	0	0	N.W.	4	N.W.	12	W.	2	30.20	1.00	.38	.47		
20	29	45	40	38.00	H.	0	H.	0	0	0	H.	4	S.	8	S.	1	30.21	.49	.62	.78		
21	45	55	49	49.66	F.	4-4	4-4	4-4	4-4	...	S.W.	11	S.	6	S.E.	1	30.02	.92	.93	.92		
22	49	52	49	50.00	1.80	4-4	4-4	4-4	4-4	...	S.	2	S.	9	S.E.	7	30.80	.93	.93	1.00		
23	53	56	54	54.33	.79	4-4	4-4	4-4	4-4	...	S.E.	5	S.W.	1	N.	9	29.97	.92	.69	.75		
24	46	46	43	45.00	.07	4-4	4-4	4-4	4-4	...	N.W.	2	N.W.	4	W.	4	29.74	.45	.38	.52		
25	45	50	44	46.33	...	S.	0	S.	0	0	W.	9	S.W.	10	N.E.	6	29.93	.71	.43	.52		
26	37	59	51	49.00	...	S.	0	4-4	0	1-4	S.E.	7	S.	10	S.	10	29.99	.75	.32	.35		
27	44	54	43	47.00	...	S.	0	S.	0	4-4	S.W.	1	N.	8	N.E.	5	30.46	...	.34	.53		
28	42	35	38	38.50	...	S.	2-4	F.	2-4	0	N.E.	5	N.E.	6	N.E.	3	30.43	.61	.53	.52		
29	34	45	44	41.00	...	0	2-4	3-4	2-4	2-4	E.	3	S.E.	3	S.E.	3	30.37	.81	.64	.81		
30	38	58	57	51.00	...	0	2-4	3-4	2-4	2-4	E.	3	S.E.	3	S.E.	3	30.37	.81	.64	.81		

\* Frost during nights of October 6-7, and October 31 and November 1.

The foregoing record of the meteorological conditions observed during the period of the prevalence of the epidemic yellow fever at Memphis and Shreveport in 1873, undoubtedly furnish important facts which are essential to a correct study of the habits and climatic conditions under which this disease exists. Yet we are unable to deduce from them, or to recognize any positive factor or factors that can satisfactorily account for the outbreak and the prevalence, for months, of a specific fever which is very generally believed by physicians to have been imported from New Orleans, where, however, it was not recognized as being epidemic or even extensively prevalent during any part of the summer.

We may here remark, that in the study of this disease as seen in the United States, it is to man himself, and his neglect of the laws governing health and the sanitary conditions of his abode, that we must look for at least some of the exciting causes.

That the disease has limits varying its boundaries during particular seasons, will be readily conceded. One of the limiting causes assigned by most observers, is low temperature. We believe that elevation and a comparatively dry atmosphere may be added.

We ask the question if, from the facts furnished by the different visitations of yellow fever within the United States, elevation is entitled to be credited in any degree with controlling the spread of the disease to interior towns; and if so, does the elevation control it in any other mode than by the effect of a cooler and drier atmosphere than prevails in the low lands in the same vicinity?

Nothing is truer than that man's health is affected by his surroundings. Where a rapid vegetable growth and decay go on, as in the tropical and semi-tropical regions, these localities must always have conditions peculiar to themselves, which influence powerfully both health and disease, although their modes of action may escape our observation.

Humboldt long ago observed that this fever did not exist at high altitudes. A. Keith Johnson, in his valuable *Physical Atlas*, says: "At Xalapa, in Mexico, on the same parallel with Vera Cruz, but 4,330 feet above the sea, yellow fever is unknown." In Jamaica, Maroontown and the Phoenix Park, at an elevation of 2,000 feet, are noted for their healthfulness, while yellow fever rages along the coast, cutting off many hundreds annually. In this island, however, it has been known to exist in a mild form on Stony Hill, elevated 1,360 feet.

Major Tullock, of the British army, remarks that this disease has never been known in any climate at an elevation of 2,500 feet. Mount Desmoulin, near Roseau, in the island of Dominica, 1,500 feet above the sea, is always free from fever, even while it is epidemic at the water-line. The same exemption is observed in the northern and elevated parts of San Domingo, whatever may be the character of the soil.

Dr. Drake, in his work, fixes a limit to this fever in the United States at 400 feet. These figures would seem to be not far out of the way.

This view of the limitation to the spread of yellow fever by elevation has been observed in Cuba and elsewhere.

Fort Smith, in Arkansas, 460 feet above the sea, is the highest point at which this fever has prevailed as an epidemic in the United States. Although Winchester, Va., at an altitude of 700 feet, is placed upon the map, the cases reported to have occurred there in 1802 are not well authenticated. A correspondence with Dr. G. Miller, an old and intelligent physician of that place, was opened to verify the report, but nothing could be learned that would give credibility to the statement. As a faithful chronicler, however, we do not feel at liberty to omit the mention of the disease at this place, with the authority, and the less so since a person *en route* from the South died there shortly after his arrival, in 1871, of what was supposed to be yellow fever. There is much room for doubt, also, as to the correctness of the diagnosis that recognized yellow fever at Gallipolis, in Ohio, in 1796, and in Bald Eagle Valley and Nittany, in Pennsylvania, in 1799.

The cases at Cincinnati in 1871 and 1873 were strangers, reported to have been brought there on boats from New Orleans and Memphis, which renders it probable that they were yellow fever, but contracted before sailing. No new cases occurred at Cincinnati. Those reported at Winchester, Gallipolis, Bald Eagle Valley, Nittany, and other points, not here questioned, may have been only aggravated cases of bilious fevers.

But lest we be misled, and attribute too much influence to elevation, we should not forget the remark of the late Dr. La Roche, who notices how securely a stranger may live in the near vicinity of the epidemic, provided he does not enter the infected district. This fact suggests that the stratum of air, in which the infection peculiar to yellow fever exists, is heavier than air free from the poison, and which therefore seeks the lowest and dampest localities.

If this view should be verified by careful and repeated observations, it would suggest that houses and hospitals, in districts particularly liable to yellow fever, should be built upon columns or supports 10 or 12 feet high, with the space beneath paved and left open for the free circulation of air. The occupants might thus, to some extent, escape breathing the heavier and more noxious stratum of air.

It is clear, as shown by this map, that the disease has, in the United States, never in an epidemic form reached an elevation of 500 feet. If elevation, then, can exempt the inhabitants of a place from such a terribly destructive disease, the profession should, and will, avail itself of this means of protecting life, namely, the removal of all susceptible persons out of the infected district to an elevation above 500 feet if practicable. So far as we could collect facts bearing upon the point in question as to each locality we have done so, and they are given in the following table:



TABLE OF LOCALITIES IN THE UNITED STATES WHERE YELLOW FEVER HAS APPEARED SINCE A. D. 1668.

*With their Elevations above the Sea-level; Dates of Commencement and Suspension of the Disease; Mortality; and Authorities for the Statements.*

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COM- MENCEMENT.		DATE OF SUS- PENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Alabama.	Blakely, Baldwin Co. ....	On Tonsaw River. ....	25	1822					Drake, Principal Diseases of Interior Valley, North America, p. 225.
	Catawba, Dallas Co. ....	On Alabama River. ....	175	1853					E. H. Barton, Report San. Com. of N. O., 1857, p. 65.
	Citronelle, Mobile Co. ....	On Mobile and Ohio Railroad.	65	1853					J. C. Nott, N. O. M. & S. J., 1854, p. 571.
	Dog River Cotton Factory.	Five miles from Mobile.	30	1853	Aug. 8				C. Whitfieldworth, Ch. M. J. & Rev., 1859, p. 479.
	Demopolis, Marengo Co. ....	On Tombigbee River. ....	125	1853					E. D. Fenner, History of Epidemic Yellow Fever, 1853, p. 49.
	Fort Claiborne, Monroe Co. ....	Alabama River. ....	75	1819	July 4	1819	Dec. 1		Harvey E. Brown, (asst. surg., U. S. A.) Quarantine, on the southern and Gulf coasts, 1872.
	Fort Morgan Island. ....	Mobile Bay. ....	20	1847	Aug. 13				Brown, Quarantine, p. 41.
	Fort Saint Stephen, Wash- ington Co. ....	Tombigbee River. ....	75	1819	July 4	1819	Dec. 1		Dowler, Yellow Fever of 1853, p. 16.
	Fulton, Sumpter Co. ....	Tombigbee River. ....	120	1853					N. O. Med. and Surg. Jour., vol. 11, 1854, p. 53.
	Hollywood. ....	Tombigbee River. ....	75	1853					E. H. Barton, Report San. Com. of N. O., 1857, p. 65.
	Mobile, Mobile Co. ....	Mobile Bay. ....	20	1853					P. H. Lewis, N. O. M. J., 1856, vol. 1, No. 4, p. 283.
				1853					Drake, Dis. Int. Valley of N. A., p. 216.
				1853					P. H. Lewis, N. O. M. J., vol. 1, No. 4, 1855, p. 283.
				1851	Aug. 15		Nov. —	274	P. H. Lewis, N. O. M. J., vol. 1, No. 4, 1855, p. 284.
				1852					Drake, Dis. Int. Valley of N. A., p. 191.
				1854					Do.
				1855	Sept. —				Do.
				1857	Aug. —				Drake, Dis. Int. Valley of N. A., p. 219.
				1857					Do.
				1859	Sept. 14			330	Drake, Dis. Int. Valley of N. A., p. 191.
				1857	Sept. 20	1837	Nov. —	350	Drake, Dis. Int. Valley of N. A., p. 220.
				1854					Do.
				1859	Aug. 11	1839	Oct. 20	650	Drake, Dis. Int. Valley of N. A., p. 191.
				1841				60	Drake, and Brown, Quarantine, 1872.
				1842	Aug. 30			240	A. H. Lewis, N. O. M. J., 1854, p. 34.
				1843	Aug. 18	1843	Nov. 5	76	Drake, Dis. Int. Valley of N. A., p. 191.
				1844					Brown, Quarantine, and Fenner's South Med. Re- ports, vol. 2, p. 304.
				1847					Fenner, South Med. Reports, vol. 2, p. 304.
				1848				75	



Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &amp;c.—Continued.

Stato.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.			DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Year.	Month.		
Florida .....	Milton, Santa Rosa Co .... Pensacola Bay. On Pensacola Bay.....	On Blackwater River, near Pensacola Bay. On Pensacola Bay.....	20 15	1829	June —	.....	.....	.....	26	C. C. Dupré, Am. J. of Med. Sci., 1841, p. 380.
				1841	Aug. —	.....	.....	.....	112	Do.
				1853	Aug. —	1854	Aug. —	.....	.....	Army Medical Statistics, p. 323.
				1854	.....	.....	.....	.....	.....	Ed. N. O. M. & S. J., 1854, p. 423.
				1862	June 20	.....	.....	Oct. —	71	Ed. M. and S. Reporter, 1862, p. 513.
				1864	.....	.....	.....	.....	.....	E. E. Hunt, Med. Reporter, 1864, p. 340.
				1865	.....	.....	.....	.....	.....	Brown, Quarantine, p. 40.
				1867	.....	.....	.....	.....	.....	Surgeon-General's Office, Circular No. 1, 1868, p. 152.
				1869	.....	.....	.....	.....	.....	Brown, Quarantine, p. 41.
				1882	.....	.....	.....	.....	.....	Brown, Quarantine, p. 38.
				1885	.....	.....	.....	.....	.....	Do.
				1764	.....	.....	.....	.....	.....	P. S. Townsend, N. Y. M., and Ph. J., 1823, p. 315.
				1765	.....	.....	.....	.....	125	Drake, Dis. Int. Valley of N. A., p. 190.
				1811	Aug. 12	.....	.....	Oct. 10	357	Do.
				1822	.....	.....	.....	.....	.....	Drake, Dis. Int. Valley, of N. A., p. 229.
				1825	.....	.....	.....	.....	.....	Brown, Quarantine, p. 36.
				1827	.....	.....	.....	.....	.....	Med. Statistics, United States Army, p. 58.
				1834	Aug. 23	.....	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 232.
				1839	.....	.....	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 233.
				1841	.....	.....	.....	.....	.....	Do.
				1842	.....	.....	.....	.....	.....	S. C. Laurason, Maryland M. & S. J., 1843, p. 393.
				1843	.....	.....	.....	.....	.....	Dr. Wedderburn, Report of San. Com., p. 125.
				1844	.....	.....	.....	.....	.....	Do.
				1845	.....	.....	.....	.....	.....	Brown, Quarantine, p. 36.
				1846	.....	.....	.....	.....	.....	Do.
				1847	.....	.....	.....	.....	.....	Do.
				1848	.....	.....	.....	.....	.....	Dr. Wedderburn, Report of San. Com., p. 125.
				1853	July 9	.....	.....	.....	.....	Dr. Wedderburn, Report of San. Com. of N. O., p. 125.
				1854	.....	.....	.....	.....	.....	E. D. Finner, Ills. of Yellow Fever, N. O., 1855, p. 49.
				1857	Aug. 35	.....	.....	.....	.....	E. B. S. Young, N. O. M. N., 1858, p. 47.
				1867	July 24	.....	.....	.....	34	B. F. Gibbs, A. J. M. Sc., 1866, p. 340.
				1873	Aug. 6	.....	.....	.....	61	M. Reporter, 1868, p. 927.
St. Augustine, St. John's Co.	On Matanzas Sound, two miles from the sea.		10	1867	.....	.....	.....	.....	.....	R. F. Michel, Charleston M. J. and R., 1874, vol. 1, No. 4, p. 280.
				1891	Aug. —	.....	.....	.....	140	Brown, Quarantine, p. 32.
				1893	.....	.....	.....	.....	.....	J. Gotham, M. Reporter, 1893, p. 564.
				1899	Aug. 15	.....	.....	.....	.....	C. C. Dupré, A. J. Med. Sci., 1911, p. 384.





Table of Localities in the United States where Yellow Fever has appeared since A. D. 1638, &amp;c.—Continued.

Name.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Louisiana.....									
	Bay of Saint Louis.....	Mouth of the Mississippi River.	10	1830	Aug. —	.....	.....	.....	A. P. Merrill, N. O. M. and S. J., 1851, p. 1. N. O. M. and S. J., 1850, p. 79.
	Bayou Sara, West Feliciana Parish.	On Mississippi River.....	75	1853	.....	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., 1848, p. 19. P. C. Gallard, Ch. M. J. and Rev., 1859, p. 461. Brown, Quarantine.
	Burat Settlement, (coast below New Orleans.)	On Mississippi River.....	10	1853	Sept. 22	.....	.....	.....	
	Carrollton, Jefferson Parish.	On Mississippi River.....	15	1847	May 18	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., 1848, p. 192. D. Warren Bickell, N. O. M. and S. J., 1855, p. 107. W. B. Wood, N. O. M. N., 1856, p. 453. Do.
	Centreville, Saint Mary's Parish.	On Teche River 60 miles from the Gulf of Mexico.	20	1853	Sept. 18	.....	.....	.....	
	Clinton, East Feliciana Parish.	32 miles N. of Baton Rouge.	85	1853	Sept. —	.....	.....	.....	
	Cloutierville, Natchitoches Parish.	On Old River, branch of Red River.	175	1853	Aug. 14	.....	.....	.....	B. Dowler, Tableau of Yellow Fever, 1853, p. 28. Brown, Quarantine. Do.
	Covington, Saint Tammany Parish.	45 miles north of New Orleans.	25	1854	.....	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., 1848, p. 192.
	Douchesville, Ascension Parish.	On Mississippi River.....	30	1847	.....	.....	.....	.....	
	Franklin, Saint Mary's Parish.	On Teche River, 65 miles from the Gulf of Mexico.	15	1853	Oct. 19	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 247. J. W. Lyman, N. O. M. and S. J., 1854, p. 670. W. B. Wood, N. O. M. N., 1856, p. 483. N. O. M. J., 1859, p. 506.
	Gretna Parish.	On Mississippi River.....	18	1858	.....	.....	.....	.....	
	Iberville, Iberville Parish.	On Mississippi River.....	15	1854	Oct. 7	.....	.....	.....	Brown, Quarantine.
	Jennacott's, Parish of Saint Mary.	Settlement on coast below New Orleans.	10	1854	Sept. 12	.....	.....	.....	Brown, Quarantine.
	Jesuit's Bend.....	Near New Orleans.....	12	1847	June 22	.....	.....	.....	N. O. M. and S. J., 1848, p. 536. J. L. Ridell, N. O. M. and S. J., 1854, p. 813.
	La Fayette.....	On Mississippi River.....	100	1853	.....	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., p. 192. N. O. M. J., 1859, p. 506.
	Mandeville, Saint Tammany Parish.	On Lake Pontchartrain.....	15	1847	.....	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 191. Drake, Dis. Int. Valley of N. A., p. 241. Report New Orleans Board of Health, 1872, p. 63. Brown, Quarantine, p. 38.
	McDonoughville.....	On Red River.....	180	1849	.....	.....	.....	.....	
	Natchitoches.....	Southern part of Louisiana.....	20	1849	.....	.....	.....	.....	
	New Iberia, Saint Martin's Parish.	.....	1849	.....	.....	.....	.....	.....	
	.....	.....	1849	.....	.....	.....	.....	.....	





Table of Localities in the United States where Yellow Fever has appeared since A. D. 1663, &amp;c.—Continued.

e.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Louisiana.....	New Orleans.....	On Mississippi River.....	10	1855	June —	.....	Dec. —	2,670	Chaillé, Va. Med. J., 1856, p. 499.
				1850	Aug. —	.....	Nov. —	104	S. Chaillé, Va., M. J., 1856, p. 499.
				1857	June —	.....	Dec. —	169	Do.
				1858	June —	.....	Oct. 10	3,889	Ed. Med. Rep., 1858, vol. 1, No. 4, p. 72.
				1862	.....	.....	.....	.....	Feiner, S. J. of M. S., May, 1866.
				1863	.....	.....	.....	.....	Chaillé, Va. Med. J., 1863, p. 8.
				1864	.....	.....	.....	.....	Military Commission, p. 264.
				1867	June 10	.....	Dec. 22	3,093	Ed. N. O. M. J., 1868, p. 198.
				1870	May 16	.....	Dec. —	587	J. C. Fugate, N. O. M. J., 2 S. J., vol. 1, No. 2, 1873.
				1871	Aug. 4	.....	Oct. —	55	Report N. O. Board of Health, 1871.
				1872	Aug. 23	.....	Nov. 30	40	Report N. O. Board of Health, 1872, p. 17.
				1873	July 4	.....	Nov. 18	225	Oscar Smith, Report Supervising Surgeon, U. S. Marine Hospital, 1873.
	New Orleans, (small settlement on coast below.) Opelousa, Saint Landry Parish.	On Mississippi River. Seven miles from the head of navigation on the Courta- bleau Bayou.	10 60	1854	.....	.....	.....	.....	D. R. Fox, N. O. M. N., 1855, p. 409.
				1855	.....	.....	.....	.....	Do.
				1820	.....	.....	.....	.....	Carpenter, Sketches, p. 26.
				1837	Oct. 20	.....	Nov. —	.....	T. A. Cooke, N. O. M. J., 1846, p. 27; Drake, p. 243.
				1839	Aug. —	.....	Nov. —	.....	Do.
				1842	.....	.....	.....	.....	Do.
				1853	.....	.....	.....	.....	T. A. Cooke, South Med. Rec., vol. 34, 1873, No. 4, p. 199.
				1867	.....	.....	.....	.....	Do.
				1853	Aug. 8	.....	Dec. —	45	J. S. Grant, M. D., Report San. Com., 1853, p. 43.
				1854	Sept. —	.....	.....	.....	W. B. Wood, N. O. M. N., 1856, p. 483.
				1855	Sept. —	.....	.....	.....	Do.
				1837	.....	.....	.....	.....	Drake, Dis. Int. Valley, N. A., p. 191.
	Point a la Hache, coast below New Orleans. Port Barre.....	On Mississippi River. On Mississippi River.	6 8	1839	.....	.....	.....	.....	Do.
				1847	.....	.....	.....	.....	N. O. M. and S. J., 1848, p. 536.
				1853	Sept. —	.....	Oct. —	.....	J. B. Hacker, N. O. M. and S. J., 1854, p. 668.
				1856	.....	.....	.....	.....	S. Chaillé, Va. M. J., 1858, p. 491.
				1854	Oct. —	.....	.....	.....	Brown, Quarantine.
				1854	.....	.....	.....	.....	Do.
				1870	.....	.....	.....	.....	T. A. Cooke, South Med. Rec., vol. 3, 1873, No. 4, p. 193.
				1839	Oct. 13	.....	.....	.....	Drake Dis. Int. Valley, N. A., p. 252.
				1841	.....	.....	.....	.....	Do.
				1843	.....	.....	.....	.....	Drake, Dis. Int. Valley, N. A., p. 191.
				1841	.....	.....	.....	.....	Drake Dis. Int. Valley, N. A., p. 253.
				1817	.....	.....	.....	.....	Do.



Table of Localities in the United States where Yellow Fever has appeared since A. D. 1663, &amp;c.—Continued.

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUB-PENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Massachusetts	Boston, Suffolk Co. ....	Head of Massachusetts Bay.	45	1798				200	J. H. Griscom, N. Y. J. M., 1856, p. 369.
				1800					S. Emolen, N. A. M. and S. J., 1823, p. 331.
				1802				60	J. Gotham, Med. Rep., 1856, p. 563.
				1805					J. H. Griscom, Visitation of Yellow Fever, p. 13.
				1819					S. Emolen, N. A. M. and S. J., 1823, p. 331.
	Holliston, Middlesex Co. . . Nantucket, Nantucket Co. . . New Bedford, Bristol Co. . .	Inland, 25 miles from Boston On an island in the ocean. . . On Buzzard's Bay. . .	75	1744				15	F. E. Oliver, B. M. and S. J., 1858, p. 140.
				1763				239	Med. Rep., 1853, p. 107. — See also <i>See also</i>
				1803					Brown, Quarantine, p. 9.
				1804					B. Dowlet, Tableau of Yellow Fever, 1853, p. 11.
				1796					J. H. Griscom, N. Y. J. M., 1856, p. 369.
Mississippi	Newburyport, Essex Co. . . Salem, Essex Co. . . Biloxi, Harrison Co. . .	On Merrimac River. . . On an inlet of the sea. . . On Biloxi Bay. . .	90 90 10	1798					J. Gotham, Jr., Med. Rep., 1856, p. 563.
				1799					Drake Dis. Int. Valley, N. A., 191.
				1817					Do.
				1823					E. D. Fenner, N. O. M. and S. J., 1845, p. 192.
				1823					J. C. Nott, N. O. M. and S. J., 1854, p. 571.
	Brandon, Rankin Co. . . Canton, Madison Co. . . Clifton, Jefferson Co. . . Cooper's Wells, Hinds Co. . . Grand Gulf, Claiborne Co. . . Greenwood, Carroll Co. . . Jackson, Hinds Co. . .	Inland, 12 miles from Jackson, on branch of Pearl River. Inland 25 miles from Jackson, near branch of Pearl River. 10 miles from Pearl River . . On Mississippi River. . . On Yazoo River. . . On Pearl River. . .	300 320 175 275 200 140 275	1823	Sept. 15				S. Chaillu, Va. M. J., 1853, p. 401.
				1823					Report Sanitary Commission, 1853, p. 77.
				1824	Sept. 23		Nov. 18		Trans. A. M. A., 22, p. 201.
				1825					A. P. Jones, N. O. M. N., 1856, p. 182.
				1853	Aug. 28		Oct.	13	J. S. Beasley, N. O. M. N., 1856, p. 151.
	Natchez, Adams Co. . .	On Mississippi River. . .	150	1853	Aug. 23			9	E. McAlister, N. O. M. and S. J., 1854, p. 675.
				1853					Trans. A. M. A., 1854, p. 225.
				1853					S. C. Farrus, Stethoscope, 1855, p. 584.
				1854					Do.
				1817	Sept. —		Nov. 9	9	Drake, Dis. Int. Valley, N. A., p. 263.
				1819	Sept. —		Dec. —	180	Brown, Quarantine, p. 59.
				1823	Aug. 10		Oct. 18	312	H. Tooley, History Yellow Fever, 1823, p. 25.
				1825	Aug. 20		Nov. 1	150	Drake, Dis. Int. Valley, N. A., p. 269.
				1827					A. T. Merrill, Gulf. M. J., 1866, p. 561.
				1829	Sept. 1		Nov. —	90	Drake, Dis. Int. Valley, N. A., p. 191.
				1837	Sept. 8		Nov. 25	280	Do.
				1839	Sept. —		Nov. —	235	Do.
				1841	June		Nov. —		Cartwright, N. O. M. and S. J., 1848, p. 225.
				1843	July 17				C. H. Stine, N. O. M. and S. J., 1849, p. 549.
				1853					B. Dowlet, Tableau of Yellow Fever, 1853, p. 93.



Missouri	Pascagoula, Jackson Co....	On Pascagoula Bay .....	1875	.....	.....	.....	.....	.....	.....	14. M. and S. J., 1855, p. 275.
	Pass Christian, Harrison Co.	Near Saint Louis Bay .....	1871	.....	.....	.....	.....	.....	.....	S. Chaillé, Va. M. J., 1855, p. 491.
New Hampshire	Petit Gulf Hills, Jefferson Co.	On Mississippi River .....	1873	.....	.....	.....	.....	.....	.....	E. D. Jenner, N. O. M. and S. J., 1854, p. 192.
	Port Gibson, Calhoun Co.	On Bayou Pierre .....	1875	.....	.....	.....	.....	.....	.....	J. C. Nott, N. O. M. and S. J., 1854, p. 571.
New Jersey	Radney, Jefferson Co. ....	On Mississippi River .....	1873	.....	.....	.....	.....	.....	.....	E. D. Jenner, N. O. M. and S. J., 1855, p. 192.
	Shieldsborough, Hancock Co.	On Saint Louis Bay .....	1873	.....	.....	.....	.....	.....	.....	J. C. Nott, N. O. M. and S. J., 1854, p. 571.
New York	Vietsburg, Warren Co. ....	On Mississippi River .....	1873	.....	.....	.....	.....	.....	.....	W. H. Calvert, N. O. M. and S. J., 1856, p. 89.
	Washington, Adams Co ..	Inland, near Natchez .....	1871	.....	.....	.....	.....	.....	.....	S. Chaillé, Va. M. J., 1858, p. 491.
New York	Whitell's Landing .....	Twenty miles below Natchez .....	1871	.....	.....	.....	.....	.....	.....	A. P. Jones, N. O. M. N., 1854, p. 180.
	Woodville, Wilkinson Co ..	Fifteen miles east of the Mississippi River .....	1871	.....	.....	.....	.....	.....	.....	E. McAllister, N. O. M. and S. J., 1854, p. 676.
New York	Yazoo City, Yazoo Co. ....	On Yazoo River .....	1873	.....	.....	.....	.....	.....	.....	A. P. Jones, N. O. M. N., 1854, p. 180.
	Saint Louis, Saint Louis Co.	On Mississippi River .....	1873	.....	.....	.....	.....	.....	.....	C. B. New, West Lancet, 1844, p. 301.
New York	New Design, Saint Louis Co.	Twenty miles below Saint Louis .....	1873	.....	.....	.....	.....	.....	.....	A. P. Jones, N. O. M. N., 1854, p. 180.
	Portsmouth, Rockingham Co.	On Piscataqua River, three miles from the ocean .....	1873	.....	.....	.....	.....	.....	.....	Do.
New York	Bridgeton, Cumberland Co.	On Cohancey Creek, twenty miles from Delaware Bay .....	1873	.....	.....	.....	.....	.....	.....	Do.
	Gloucester City, Camden Co.	On Delaware River .....	1873	.....	.....	.....	.....	.....	.....	Do.
New York	Port Amboy, Middlesex Co.	On Raritan Bay .....	1873	.....	.....	.....	.....	.....	.....	Do.
	Port Elizabeth, Cumberland Co.	On Maurice River .....	1873	.....	.....	.....	.....	.....	.....	Do.
New York	Woodbury, Albany .....	On Hudson River .....	1873	.....	.....	.....	.....	.....	.....	Do.
	Bay Ridge, Long Island ..	A seaport .....	1873	.....	.....	.....	.....	.....	.....	Do.
New York	Brooklyn, Kings Co. ....	.....	1873	.....	.....	.....	.....	.....	.....	Do.
	.....	.....	1873	.....	.....	.....	.....	.....	.....	Do.

14. M. and S. J., 1855, p. 275.  
 S. Chaillé, Va. M. J., 1855, p. 491.  
 E. D. Jenner, N. O. M. and S. J., 1854, p. 192.  
 J. C. Nott, N. O. M. and S. J., 1854, p. 571.  
 E. D. Jenner, N. O. M. and S. J., 1855, p. 192.  
 J. C. Nott, N. O. M. and S. J., 1854, p. 571.  
 W. H. Calvert, N. O. M. and S. J., 1856, p. 89.  
 S. Chaillé, Va. M. J., 1858, p. 491.  
 A. P. Jones, N. O. M. N., 1854, p. 180.  
 E. McAllister, N. O. M. and S. J., 1854, p. 676.  
 A. P. Jones, N. O. M. N., 1854, p. 180.  
 C. B. New, West Lancet, 1844, p. 301.  
 A. P. Jones, N. O. M. N., 1854, p. 180.  
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 A. L. C. Magruder, N. O. M. J., 1854, p. 689.  
 Ed. West Lancet 1853, p. 575.  
 Drake, Dis. Int. Valley N. A., p. 191.  
 S. Chaillé, Va. M. J., 1858, p. 49.  
 Med. and Surg. Rep., vol. 25, No. 16, p. 354.  
 J. W. Monnett, A. J. M. Sc., 1827, p. 243.  
 Drake, Dis. Int. Valley of N. A., p. 190.  
 J. W. H. West, Lancet, 1844, p. 347.  
 P. C. Gaillard, Ch. M. J. and Rev., 1859, p. 420.  
 A. C. Holt, N. O. M. N., 1856, p. 194.  
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 S. Chaillé, Va. M. J., p. 491.  
 Trans. A. M. A., 1854, p. 525.  
 Ed. Nash, J. M. and S., 1854, p. 345.  
 W. Webb, N. O. M. N., 1856, p. 52.  
 Dr. Watkins, M. Repos., 1801, p. 74.  
 Med. Repos., 1799, p. 211.  
 J. H. Griscom, Visitations of Yellow Fever, p. 9.  
 J. Gotham, M. Rep., 1856, p. 564.  
 G. Lee, M. Repos., 1800, p. 246.  
 J. H. Griscom, Visitations of Yellow Fever, p. 9.  
 J. H. Griscom, Visitations of Yellow Fever, p. 4.  
 J. Gotham, Jr., M. Rep., 1856, p. 563.  
 C. D. Griswold, B. M. and S. J., 1858, p. 214.  
 Gillespie, Amer. Med. and Philo. Reg., vol. 3, p. 101.  
 Ed. N. Y. J. M., 1856, p. 278.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1658, &c.—Continued.

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
New York	Brooklyn, Kings Co.	A seaport.	40	1823	July 14	.....	.....	.....	Carpenter, Sketches of Yellow Fever. 3d Nat'l Quarantine and Sanitary Convention, p. 41.
	Catskill, Greene Co.	On Hudson River.	50	1856	.....	.....	.....	.....	
	Governor's Island.	New York Harbor.	25	1794	Aug. 10	.....	Sept. 28	8	B. W. Dwight, M. Reps.
	Gowanus, Kings Co.	On Gowanus Cove, near New York Harbor.	15	1803	July 29	.....	.....	.....	3d Nat'l Quarantine and Sanitary Convention, p. 41.
	Greenfield, Saratoga Co.	Far inland.	150	1856	Sept. —	.....	Oct. 26	49	Report Board of Health, New York, 1870, p. 29.
	Huntington, Suffolk Co.	Huntington Bay.	20	1870	.....	.....	.....	.....	V. M. J., 1856, p. 328.
	New York, New York Co.	A seaport.	35	1798	.....	.....	.....	.....	J. G. Scott, M. Repos., 1867, p. 291.
				1795	.....	.....	.....	.....	Dr. D. Hosack, M. and Philos. Reg., 1813, p. 791.
				1798	.....	.....	.....	.....	Do.
				1808	.....	.....	Sept. 30	570	J. H. Griseom, M. Rep., 1856, p. 561.
				1732	.....	.....	.....	.....	J. H. Griseom, Visitations of Yellow Fever, p. 2.
				1741	.....	.....	.....	.....	J. H. Griseom, Visitations of Yellow Fever, p. 3.
				1743	.....	.....	.....	.....	Ed. N. Y. J. M., 1856, p. 278.
				1745	.....	.....	.....	.....	Do.
				1747	.....	.....	.....	.....	Do.
				1748	.....	.....	.....	.....	J. H. Griseom, Visitations of Yellow Fever, p. 4.
				1762	.....	.....	.....	.....	Daily Shreveport Times, vol. 2, No. 811, 1873.
				1790	.....	.....	.....	.....	Do.
				1791	Aug. —	.....	Oct. 15	.....	W. Hume, Ch. M. J. and Rev., 1860, p. 24.
				1792	.....	.....	.....	.....	Ed. N. Y. J. M., 1856, p. 278, and Brown, Quarantine, 6.
				1793	.....	.....	.....	.....	Ed. N. Y. J. M., 1856, p. 278.
				1794	.....	.....	.....	.....	Do.
				1795	July 19	.....	.....	730	Do.
				1796	.....	.....	.....	.....	Bayley's Account of Epidemic Fever, 1795.
				1797	.....	.....	.....	.....	Ed. N. Y. J. M., 1856, p. 278.
				1798	Aug. —	.....	Nov. —	2,080	Do.
				1799	July —	.....	Nov. —	76	Do.
				1800	Sept. —	.....	Oct. 14	*21	Do.
				1801	Sept. —	.....	Oct. —	*16	Do.
				1802	.....	.....	.....	.....	Do.
				1803	July 18	.....	Oct. —	6-700	W. Hume, Ch. M. J. and Rev., 1860, p. 24.
				1805	June —	.....	Oct. —	340	Ed. N. Y. J. M., 1856, p. 278.
				1806	June —	.....	Nov. —	*40	J. H. Griseom, M. Rep., 1856, p. 561.

1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	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Table of Localities in the United States where Yellow Fever has appeared since A. D. 1663, &amp;c.—Continued.

State.	Location.	Situation.	[Elevation, in feet, above sea-level.]		DATE OF COM- MENCEMENT.		DATE OF SUB- PENSION.		Mortality.	Authority.
			Year.	Month.	Year.	Month.	Year.	Month.		
North Carolina	New Berne, Craven Co. . .	On Neuse River . . . . .	20	1790	Sept. —	—	—	—	700	M. Reposs, 1800, p. 197.
	Smithville, Brunswick Co. . .	On Cape Fear River, near the ocean.	15	1862	—	—	Nov. —	—	—	Report Medical Inspector U. S. A., Dec. 31, 1864.
	Washington, Beaufort Co. . .	On Tar River, 40 miles from Pamlico Sound.	35	1800	—	—	—	—	—	W. T. Wriggs, N. Y. M. J., vol. 18, No. 3, 1869, p. 40.
	Wilmington, New Han- over Co. . . . .	On Cape Fear River, 34 miles from the sea.	25	1796	—	—	—	—	—	M. Reposs, 1800, p. 197.
Ohio	Cincinnati, Hamilton Co. . .	On Ohio River . . . . .	550	1800	Aug. 9	—	—	—	—	J. H. Griscom, N. Y. J. M., p. 369.
	—	—	—	1821	—	—	—	—	—	M. Reposs, 1800, p. 197.
	—	—	—	1862	Aug. 6	—	Nov. 17	446	—	J. Hill, A. M. Rec., 1822, p. 86, and Brown, Quarantime, p. 18.
	—	—	—	1871	—	—	—	—	—	W. T. Wriggs, N. Y. J. M., 1880, p. 478, and 1869, p. 225.
Pennsylvania	Gallipolis, Gallia Co. . . . .	Center of Pennsylvania, on West Branch of Susque- hanna River.	520	1873	Aug. 1	—	—	—	—	Health Office report.
	Bald Eagle Valley, Clin- ton Co. . . . .	—	350	1799	—	—	—	—	—	A. Elliott, M. Reposs, 1801, p. 74.
	—	—	—	—	—	—	—	—	—	W. Harris, M. Reposs, 1801, p. 75.
	—	—	—	—	—	—	—	—	—	—
	—	—	—	1798	—	—	—	—	50	J. H. Griscom, Visitations of Yellow Fever, p. 9.
	—	—	—	1805	—	—	—	—	—	Doxler, Tables of Rev., p. 13.
	—	—	—	1793	—	—	—	—	—	La Roche, Yellow Fever, p. 63.
	—	—	—	1803	Aug. —	—	—	—	—	W. Baldwin, Med. Mus., 1803, p. 601.
	—	—	—	1798	—	—	—	—	—	J. Rush, Med. Mus., 1803, p. 62.
	—	—	—	—	—	—	—	—	—	—
	—	—	—	1799	—	—	—	—	—	W. Harris, M. Reposs, 1801, p. 75.
	—	—	—	1695	—	—	—	—	—	J. N. Schoolfield, Va. M. J., 1857, p. 338.
	—	—	—	1699	Aug. 1	—	—	—	220	R. La Roche, Ch. M. J. and Rev., 1652, p. 38.
	—	—	—	1732	—	—	—	—	—	Daily Shreveport Times, vol. 2, No. 311, 1873.
	—	—	—	1741	—	—	—	—	250	J. H. Griscom, Visitations of Yellow Fever, p. 3.
	—	—	—	1742	—	—	—	—	—	B. Dowler, Tableau of Yellow Fever, p. 3.
	—	—	—	1543	—	—	—	—	—	Do.
	—	—	—	1741	—	—	—	—	—	Do.
	—	—	—	1747	—	—	—	—	—	R. La Roche, Ch. M. J. and Rev., 1852, p. 158.
	—	—	—	1762	Aug. —	—	Nov. —	—	—	J. H. Griscom, Visitations of Yellow Fever, p. 5.
	—	—	—	1791	—	—	—	—	—	Carey, Account of the Malignant Fever, p. 116.
	—	—	—	1793	Aug. 15	—	Dec. —	4,041	—	—

Rhode Island	Southwark, Philadelphia Co	On Delaware River	1794	1796	Aug. 1	Oct. 15	1,300	La Roche, Board of Health Rep., Phila. 1870, p. 53.
	Black Island	In Long Island Sound	1797	1797	Nov. 1	Nov. 1	3,500	J.M. Grissom, N. Y. J. M., 1806, p. 369, and 1836, p. 368.
	Bristol, Bristol Co	On Narragansett Bay	1798	1798	Aug. 1	Nov. 1	1,000	Rush, Epidemic of 1797.
			1799	1799	Jul. 1	Nov. 1	1,000	Do.
			1800	1800	Do.	Do.	307	R. La Roche, Ch. M. J. and Rev., 1852, p. 458.
			1801	1801	Do.	Do.	307	W. Hume, Ch. M. J. and Rev., 1860, p. 24.
			1802	1802	Do.	Do.	185	Do.
			1803	1803	Do.	Do.	3-400	Do.
			1804	1804	Do.	Do.	3	B. Dowler, Tableau of Yellow Fever, 1853, p. 14.
			1805	1805	Do.	Do.	3	Do.
			1806	1806	Do.	Do.	5	Do.
			1807	1807	Do.	Do.	6	Do.
			1808	1808	Do.	Do.	7	Do.
			1809	1809	Do.	Do.	2	Do.
			1810	1810	Do.	Do.	2	Do.
			1811	1811	Do.	Do.	13	S. Emilen, N. A. M. and S. J., 1828, p. 321.
			1812	1812	Do.	Do.	63	S. Jackson, A. M. Rec., 1821, p. 639.
			1813	1813	Do.	Do.	128	W. Jewell, N. Y. J. M., 1854, pp. 149, 246, and Brown, Quarantine, p. 10.
			1814	1814	Do.	Do.	18	Ed. Nash, J. M. and Surg., 1854, p. 345.
			1815	1815	Do.	Do.	45	La Roche, Yellow Fever, 1870, pp. 20, 26.
			1816	1816	Do.	Do.	45	La Roche, Yellow Fever, p. 45.
			1817	1817	Do.	Do.	123	Aaron C. Willey, M. Repos., 1833, p. 123.
			1818	1818	Do.	Do.	24	W. Hume, Ch. M. J. and Rev., 1860, p. 24.
			1819	1819	Do.	Do.	23	Do.
			1820	1820	Do.	Do.	23	Do.
			1821	1821	Do.	Do.	23	Do.
			1822	1822	Do.	Do.	23	Do.
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			1824	1824	Do.	Do.	23	Do.
			1825	1825	Do.	Do.	23	Do.
			1826	1826	Do.	Do.	23	Do.
			1827	1827	Do.	Do.	23	Do.
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			1830	1830	Do.	Do.	23	Do.
			1831	1831	Do.	Do.	23	Do.
			1832	1832	Do.	Do.	23	Do.
			1833	1833	Do.	Do.	23	Do.
			1834	1834	Do.	Do.	23	Do.
			1835	1835	Do.	Do.	23	Do.
			1836	1836	Do.	Do.	23	Do.
			1837	1837	Do.	Do.	23	Do.
			1838	1838	Do.	Do.	23	Do.
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			1840	1840	Do.	Do.	23	Do.
			1841	1841	Do.	Do.	23	Do.
			1842	1842	Do.	Do.	23	Do.
			1843	1843	Do.	Do.	23	Do.
			1844	1844	Do.	Do.	23	Do.
			1845	1845	Do.	Do.	23	Do.
			1846	1846	Do.	Do.	23	Do.
			1847	1847	Do.	Do.	23	Do.
			1848	1848	Do.	Do.	23	Do.
			1849	1849	Do.	Do.	23	Do.
			1850	1850	Do.	Do.	23	Do.
			1851	1851	Do.	Do.	23	Do.
			1852	1852	Do.	Do.	23	Do.
			1853	1853	Do.	Do.	23	Do.
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			1859	1859	Do.	Do.	23	Do.
			1860	1860	Do.	Do.	23	Do.
			1861	1861	Do.	Do.	23	Do.
			1862	1862	Do.	Do.	23	Do.
			1863	1863	Do.	Do.	23	Do.
			1864	1864	Do.	Do.	23	Do.
			1865	1865	Do.	Do.	23	Do.
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			1867	1867	Do.	Do.	23	Do.
			1868	1868	Do.	Do.	23	Do.
			1869	1869	Do.	Do.	23	Do.
			1870	1870	Do.	Do.	23	Do.
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			1874	1874	Do.	Do.	23	Do.
			1875	1875	Do.	Do.	23	Do.
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			1879	1879	Do.	Do.	23	Do.
			1880	1880	Do.	Do.	23	Do.
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			1892	1892	Do.	Do.	23	Do.
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			1897	1897	Do.	Do.	23	Do.
			1898	1898	Do.	Do.	23	Do.
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			1903	1903	Do.	Do.	23	Do.
			1904	1904	Do.	Do.	23	Do.
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			1910	1910	Do.	Do.	23	Do.
			1911	1911	Do.	Do.	23	Do.
			1912	1912	Do.	Do.	23	Do.
			1913	1913	Do.	Do.	23	Do.
			1914	1914	Do.	Do.	23	Do.
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			1916	1916	Do.	Do.	23	Do.
			1917	1917	Do.	Do.	23	Do.
			1918	1918	Do.	Do.	23	Do.
			1919	1919	Do.	Do.	23	Do.
			1920	1920	Do.	Do.	23	Do.
			1921	1921	Do.	Do.	23	Do.
			1922	1922	Do.	Do.	23	Do.
			1923	1923	Do.	Do.	23	Do.
			1924	1924	Do.	Do.	23	Do.
			1925	1925	Do.	Do.	23	Do.
			1926	1926	Do.	Do.	23	Do.
			1927	1927	Do.	Do.	23	Do.
			1928	1928	Do.	Do.	23	Do.
			1929	1929	Do.	Do.	23	Do.
			1930	1930	Do.	Do.	23	Do.
			1931	1931	Do.	Do.	23	Do.
			1932	1932	Do.	Do.	23	Do.
			1933	1933	Do.	Do.	23	Do.
			1934	1934	Do.	Do.	23	Do.
			1935	1935	Do.	Do.	23	Do.
			1936	1936	Do.	Do.	23	Do.
			1937	1937	Do.	Do.	23	Do.
			1938	1938	Do.	Do.	23	Do.
			1939	1939	Do.	Do.	23	Do.
			1940	1940	Do.	Do.	23	Do.
			1941	1941	Do.	Do.	23	Do.
			1942	1942	Do.	Do.	23	Do.
			1943	1943	Do.	Do.	23	Do.
			1944	1944	Do.	Do.	23	Do.
			1945	1945	Do.	Do.	23	Do.
			1946	1946	Do.	Do.	23	Do.
			1947	1947	Do.	Do.	23	Do.
			1948	1948	Do.	Do.	23	Do.
			1949	1949	Do.	Do.	23	Do.
			1950	1950	Do.	Do.	23	Do.
			1951	1951	Do.	Do.	23	Do.
			1952	1952	Do.	Do.	23	Do.
			1953	1953	Do.	Do.	23	Do.
			1954	1954	Do.	Do.	23	Do.
			1955	1955	Do.	Do.	23	Do.
			1956	1956	Do.	Do.	23	Do.
			1957	1957	Do.	Do.	23	Do.
			1958	1958	Do.	Do.	23	Do.
			1959	1959	Do.	Do.	23	Do.
			1960	1960	Do.	Do.	23	Do.
			1961	1961	Do.	Do.	23	Do.
			1962	1962	Do.	Do.	23	Do.
			1963	1963	Do.	Do.	23	Do.
			1964	1964	Do.	Do.	23	Do.
			1965	1965	Do.	Do.	23	Do.
			1966	1966	Do.	Do.	23	Do.
			1967	1967	Do.	Do.	23	Do.
			1968	1968	Do.	Do.	23	Do.
			1969	1969	Do.	Do.	23	Do.
			1970	1970	Do.	Do.	23	Do.
			1971	1971	Do.	Do.	23	Do.
			1972	1972	Do.	Do.	23	Do.
			1973	1973	Do.	Do.	23	Do.
			1974	1974	Do.	Do.	23	Do.
			1975	1975	Do.	Do.	23	Do.
			1976	1976	Do.	Do.	23	Do.
			1977	1977	Do.	Do.	23	Do.
			1978	1978	Do.	Do.	23	Do.
			1979	1979	Do.	Do.	23	Do.
			1980	1980	Do.	Do.	23	Do.
			1981	1981	Do.	Do.	23	Do.
			1982	1982	Do.	Do.	23	Do.
			1983	1983	Do.	Do.	23	Do.
			1984	1984	Do.	Do.	23	Do.
			1985	1985	Do.	Do.	23	Do.
			1986	1986	Do.	Do.	23	Do.
			1987	1987	Do.	Do.	23	Do.
			1988	1988	Do.	Do.	23	Do.
			1989	1989	Do.	Do.	23	Do.
			1990	1990	Do.	Do.	23	Do.
			1991	1991	Do.</			

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &amp;c.—Continued.

State.	Locality.	Situation.	Elevation, in feet. Above sea-level.	DATE OF COM- MENCEMENT.		DATE OF SUB- PENSION.		Mortality.	Authority.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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South Carolina	Charleston, Charleston dis- trict.	A seaport.	10	1768					M. M. Dowler, N. O. M. J., 1850, p. 305.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				1770					T. Harris, Phil. M. and Ph. J., 1806, p. 21.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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	1858	July	Dec.	717	Do.
	1862	July 27	.....	.....	Brown, Quarantine, p. 291.
	1864	July 19	.....	.....	Trans. A. M. A., vol. 23, p. 292.
	1871	July 19	.....	213	Simons' Trans. A. M. A., vol. 23, p. 293.
	1871	Aug. 6	Nov. 21	7	Trans. A. M. A., vol. 23, p. 331.
	1874	.....	.....	.....	Ed. Nash, J. M. and S., 1874, p. 345.
	1882	.....	.....	.....	M. M. Dowler, N. O. M. J., 1884, p. 365.
	1888	Aug. 15	.....	.....	Ch. M. J. and Rev., 1858, p. 814.
	1894	Aug. 30	Oct. 28	.....	W. C. Miller, Ch. M. J. and Rev., 1896, p. 19.
	1892	Sept. 8	Oct. 25	.....	Brown, Quarantine, p. 30.
	1898	.....	.....	.....	R. A. Knoch, Ch. M. J. and Rev., 1898, p. 793.
	1894	.....	.....	.....	Do.
	1894	.....	.....	.....	Do.
	1896	.....	.....	.....	Do.
	1897	.....	.....	.....	Do.
	1893	.....	.....	.....	W. J. Tuck, N. O. M. and S. J., 1854, p. 602.
	1897	.....	.....	.....	Ed. P. Merrill, Galv. M. J., 1897, p. 661.
	1896	.....	.....	.....	Ed. Auer, Proc., vol. 2, 1874, p. 316.
	1873	Sept. 14	Nov. 9	1244	Memphis Board of Health. See G. B. Thornton, in Report of Supervising Surgeon U. S. Mar. Hos Service, 1873.
	1867	Sept. 4	Dec. —	45	Trans. A. M. A., vol. 19, p. 281.
	1867	.....	.....	.....	Trans. A. M. A., vol. 19, p. 275.
	1867	.....	.....	.....	Galv. M. J., 1867, vol. 2, No. 10, p. 930.
	1867	.....	.....	.....	Trans. A. M. A., vol. 19, p. 275.
	1867	.....	.....	.....	Brown, Quarantine, p. 21.
	1855	.....	.....	1	J. Stephens, N. O. M. and S. J., 1856, p. 601.
	1859	.....	.....	.....	B. Dowler, N. O. M. J., 1860, p. 443.
	1867	Aug. 11	Oct. 31	130	Trans. A. M. A., vol. 19, p. 275.
	1853	Sept. 23	Dec. 23	50	Army Medical Statistics, p. 353.
	1858	Aug. —	Nov. —	41	S. Chaille, N. O. M. and S. J., 1858, p. 811.
	1862	Oct. 12	Jan. 10	250	Galv. M. J., 1866, p. 170.
	1867	.....	.....	.....	Newsletters.
	1873	.....	.....	.....	Trans. A. M. A., vol. 19, p. 275.
	1867	Aug. 6	Dec. —	133	Newsletters.
	1873	.....	.....	.....	Galv. M. J., 1866, p. 163.
	1873	.....	.....	132	Newsletters.
	1873	.....	.....	.....	Galv. M. J., 1866, p. 170.
	1867	Aug. —	.....	.....	Brown, Quarantine, p. 70.
	1873	.....	.....	.....	Newsletters.

\* Not within the incorporated limits of Charleston, South Carolina.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &amp;c.—Continued

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COM- MENCEMENT.		DATE OF SUS- PENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Texas.	Cypress City, Harris Co.	Near Cypress Bayou, a branch of the San Jacinto River.	00	1833					Galv. M. J., 1866, p. 189.
	Davville, Montgomery Co.	On branch of the San Jacinto River.	169	1839					B. Dowler, N. O. M. J., 1860, p. 443. Trans. A. M. A., vol. 19, p. 496.
	Edinburg, Cameron Co.	On Rio Grande River.	169	1839	July 12			13	B. Dowler, N. O. M. J., 1860, p. 443.
	Goliad, Goliad Co.	On San Antonio River.	50	1839	Sept. 30			23	Trans. A. M. A., vol. 19, p. 284.
	Galveston, Galveston Co.	On an island in Galveston Bay.	5	1844	July 5			230	Galv. M. J., 1867, p. 856.
				1847	Oct. 1			400	Galv. M. J., 1867, p. 838.
				1853	Aug. 16			536	Do. Ed. Med. and Surg. Rep., vol. 17, 1867, No. 14, p. 297.
				1854	Aug. 9			404	Do.
				1858	Aug. 27			344	Do.
				1859	Sept. 17			123	Do.
				1864	Sept. 1			239	Do.
				1866	June 26			1, 150	Do. J., 1866, p. 338.
	Isaburg, Harris Co.	On Buffalo Bayou.	35	1867	Aug. 9			151	Galv. M. J., 1866, p. 169. S. M. Welch, Galv. M. J., vol. 1, No. 2, p. 83.
	Hempstead, Austin Co.	50 miles from Houston, and near Brazos River.	200	1867					Trans. A. M. A., vol. 19, p. 282.
	Hockley, Harris Co.	Near Buffalo Bayou.	50	1860					Trans. A. M. A., vol. 19, p. 275.
	Houston, Harris Co.	On Buffalo Bayou.	50	1841					Galv. M. J., 1866, p. 169. W. McCraven, N. O. M. N., 1860, p. 105.
				1847					Do.
				1847					Do.
				1848					Do.
				1853					Do.
				1854					Do.
				1858					Do.
				1870					Do.
	Huntsville, Walker Co.	200 miles east by north of Austin.	200	1867	Aug. 9			1	Galv. M. J., 1866, p. 163. Galv. M. J., 1870, p. 206.
	Independence, Washing- ton Co.	80 miles east of Austin, near Brazos River.	250	1867	Oct. 19			130	Trans. A. M. A., vol. 19, p. 275. Trans. A. M. A., vol. 19, p. 289.

Indianola, Calhoun Co.....	On Matagorda Bay.....	10	1852	Sept. —	.....	.....	Indianola Bulletin, Dec. 16, 1870. Brown, Quarantine, p. 68. Hoard, Rep. Epid. of Texas, p. 15. B. Dowler, N. O. M. J., 1860, p. 443. Trans. A. M. A., vol. 19, p. 275. Brown, Quarantine, p. 68. Trans. A. M. A., vol. 19, p. 298. Trans. A. M. A., vol. 19, p. 273. Trans. A. M. A., vol. 19, p. 229. Galv. M. J., 1866, p. 169.
La Grange, Fayette Co.....	On Colorado River.....	450	1867	June 20	.....	80	Trans. A. M. A., vol. 19, p. 275. Galv. M. J., 1866, p. 169.
Liberty, Liberty Co.....	On Trinity River.....	40	1867	Aug. —	Nov.	—	Trans. A. M. A., vol. 19, p. 273. Galv. M. J., 1866, p. 169.
Liverpool, Brazoria Co.....	30 miles west of Galveston, near Channel River.....	25	1853	Aug. —	.....	4	Galv. M. J., 1866, p. 169.
Matagorda, Matagorda Co.....	On Matagorda Bay.....	15	1862	.....	.....	120	Galv. M. J., 1866, p. 170. Trans. A. M. A., vol. 19, p. 266.
Milliken, Brazos Co.....	Near Brazos River.....	300	1864	.....	.....	.....	Galv. M. J., 1866, p. 170.
Navasota, Grimes Co.....	On the Navasota River.....	200	1867	Oct. 15	Nov. 12	4	Trans. A. M. A., vol. 19, p. 275.
Oldtown near Indianola.....	On the Navasota River.....	200	1867	Aug. 12	Dec.	154	A. R. Kilpatrick, Galv. M. J., 1863, vol. 1, No. 3, p. 112.
Port Lavaca, Calhoun Co.....	On Lavaca Bay.....	15	1867	Oct. 13	.....	.....	Trans. A. M. A., vol. 19, p. 268.
Richmond, Fort Bend Co.....	On Brazos River.....	125	1853	July 3	Oct. 29	.....	Trans. A. M. A., vol. 19, p. 283.
Rio Grande City, Starr Co.....	On Rio Grande River.....	200	1867	.....	.....	150	Galv. M. J., 1866, p. 163.
Sabine City, Jefferson Co.....	On Sabine Lake.....	10	1863	July —	Oct. 1	.....	B. Dowler, N. O. M. J., 1860, p. 442. Hoard, Epidemic diseases of Texas.
Saluria, Calhoun Co.....	On Matagorda Island.....	100	1853	.....	.....	.....	Galv. M. J., 1866, p. 170.
Sugarland, Fort Bend Co.....	On Brazos River.....	50	1867	Aug. 1	Dec. 25	.....	B. Dowler, N. O. M. J., 1860, p. 443. Trans. A. M. A., vol. 19, p. 284.
Victoria, Victoria Co.....	On Guadalupe River.....	25	1803	Aug. 1	.....	200	Dr. Dick, Med. Repos., 1804 p. 190.
Alexandria, Alexandria Co.....	On Potomac River.....	15	1798	.....	.....	.....	Currie, Memoirs of Yellow Fever, p. 109.
City Point, Prince George Co.....	On James River.....	20	1855	.....	.....	.....	J. A. Manning, Va. M. J., 1857, p. 288.
Gosport, Norfolk Co.....	On Elizabeth River.....	20	1809	.....	.....	.....	Brown, Quarantine, p. 18.
Hampton Roads.....	Harbor.....	20	1794	.....	.....	.....	Daily Shreveport Times, vol. 2, No. 311, 1873.
Norfolk, Norfolk Co.....	On Elizabeth River.....	.....	1794	.....	.....	.....	J. H. Griscom, N. Y. J. M., 1856, p. 369.
.....	.....	.....	1795	.....	.....	.....	Do.
.....	.....	.....	1797	.....	.....	.....	Va., M. J., 1857, p. 95.
.....	.....	.....	1798	.....	.....	.....	J. H. Griscom, N. Y. J. M., 1856, p. 369.
.....	.....	.....	1799	.....	.....	.....	Va., M. J., 1857, p. 95.
.....	.....	.....	1800	.....	.....	.....	Do.
.....	.....	.....	1801	.....	.....	.....	Med. Repos., vol. 4, p. 339.
.....	.....	.....	1802	.....	.....	.....	Va., M. J., 1857, p. 95.
.....	.....	.....	1803	.....	.....	.....	Do.
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.....	.....	.....	1821	.....	.....	.....	Va., M. J., 1857, p. 95.
.....	.....	.....	1826	.....	.....	.....	Committee's Report, p. 14.
.....	.....	.....	1852	.....	.....	.....	Va., M. J., 1857, p. 95.
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.....	.....	.....	1911	.....	.....	.....	Do.
.....	.....	.....	1912	.....	.....	.....	Do.
.....	.....	.....	1913	.....	.....	.....	Do.
.....	.....	.....	1914	.....	.....	.....	Do.
.....	.....	.....	1915	.....	.....	.....	Do.
.....	.....	.....	1916	.....	.....	.....	Do.
.....	.....	.....	1917	.....	.....	.....	Do.
.....	.....	.....	1918	.....	.....	.....	Do.
.....	.....	.....	1919	.....	.....	.....	Do.
.....	.....	.....	1920	.....	.....	.....	Do.
.....	.....	.....	1921	.....	.....	.....	Do.
.....	.....	.....	1922	.....	.....	.....	Do.
.....	.....	.....	1923	.....	.....	.....	Do.
.....	.....	.....	1924	.....	.....	.....	Do.
.....	.....	.....	1925	.....	.....	.....	Do.
.....	.....	.....	1926	.....	.....	.....	Do.
.....	.....	.....	1927	.....	.....	.....	Do.
.....	.....	.....	1928	.....	.....	.....	Do.
.....	.....	.....	1929	.....	.....	.....	Do.
.....	.....	.....	1930	.....	.....	.....	Do.
.....	.....	.....	1931	.....	.....	.....	Do.
.....	.....	.....	1932	.....	.....	.....	Do.
.....	.....	.....	1933	.....	.....	.....	Do.
.....	.....	.....	1934	.....	.....	.....	Do.
.....	.....	.....	1935	.....	.....	.....	Do.
.....	.....	.....	1936	.....	.....	.....	Do.
.....	.....	.....	1937	.....	.....	.....	Do.
.....	.....	.....	1938	.....	.....	.....	Do.
.....	.....	.....	1939	.....	.....	.....	Do.
.....	.....	.....	1940	.....	.....	.....	Do.
.....	.....	.....	1941	.....	.....	.....	Do.
.....	.....	.....	1942	.....	.....	.....	Do.
.....	.....	.....	1943	.....	.....	.....	Do.
.....	.....	.....	1944	.....	.....	.....	Do.
.....	.....	.....	1945	.....	.....	.....	Do.
.....	.....	.....	1946	.....	.....	.....	Do.
.....	.....	.....	1947	.....	.....	.....	Do.
.....	.....	.....	1948	.....	.....	.....	Do.
.....	.....	.....	1949	.....	.....	.....	Do.
.....	.....	.....	1950	.....	.....	.....	Do.
.....	.....	.....	1951	.....	.....	.....	Do.
.....	.....	.....	1952	.....	.....	.....	Do.
.....	.....	.....	1953	.....	.....	.....	Do.
.....	.....	.....	1954	.....	.....	.....	Do.
.....	.....	.....	1955	.....	.....	.....	Do.
.....	.....	.....	1956	.....	.....	.....	Do.
.....	.....	.....	1957	.....	.....	.....	Do.
.....	.....	.....	1958	.....	.....	.....	Do.
.....	.....	.....	1959	.....	.....	.....	Do.
.....	.....	.....	1960	.....	.....	.....	Do.
.....	.....	.....	1961	.....	.....	.....	Do.
.....	.....	.....	1962	.....	.....	.....	Do.
.....	.....	.....	1963	.....	.....	.....	Do.
.....	.....	.....	1964	.....	.....	.....	Do.
.....	.....	.....	1965	.....	.....	.....	Do.
.....	.....	.....	1966	.....	.....	.....	Do.
.....	.....	.....	1967	.....	.....	.....	Do.
.....	.....	.....	1968	.....	.....	.....	Do.
.....	.....	.....	1969	.....	.....	.....	Do.
.....	.....	.....	1970	.....	.....	.....	Do.
.....	.....	.....	1971	.....	.....	.....	Do.
.....	.....	.....	1972	.....	.....	.....	Do.
.....	.....	.....	1973	.....	.....	.....	Do.
.....	.....	.....	1974	.....	.....	.....	Do.
.....	.....	.....	1975	.....	.....	.....	Do.
.....	.....	.....	1976	.....	.....	.....	Do.
.....	.....	.....	1977	.....	.....	.....	Do.
.....	.....	.....	1978	.....	.....	.....	Do.
.....	.....	.....	1979	.....	.....	.....	Do.
.....	.....	.....	1980	.....	.....	.....	Do.
.....	.....	.....	1981	.....	.....	.....	Do.
.....	.....	.....	1982	.....	.....	.....	Do.
.....	.....	.....	1983	.....	.....	.....	Do.
.....	.....	.....	1984	.....	.....	.....	Do.
.....	.....	.....	1985	.....	.....	.....	Do.
.....	.....	.....	1986	.....	.....	.....	Do.
.....	.....	.....	1987	.....	.....	.....	Do.
.....	.....	.....	1988	.....	.....	.....	Do.
.....	.....	.....	1989	.....	.....	.....	Do.
.....	.....	.....	1990	.....	.....	.....	Do.
.....	.....	.....	1991	.....	.....	.....	Do.
.....	.....	.....	1992	.....	.....	.....	Do.
.....	.....	.....	1993	.....	.....	.....	Do.
.....	.....	.....	1994	.....	.....	.....	Do.
.....	.....	.....	1995	.....	.....	.....	Do.
.....	.....	.....	1996	.....	.....	.....	Do.
.....	.....	.....	1997	.....	.....	.....	Do.
.....	.....	.....	1998	.....	.....	.....	Do.
.....	.....	.....	1999	.....	.....	.....	Do.
.....	.....	.....	2000	.....	.....	.....	Do.
.....	.....	.....	2001	.....	.....	.....	Do.
.....	.....	.....	2002	.....	.....	.....	Do.
.....	.....	.....	2003	.....	.....	.....	Do.
.....	.....	.....	2004	.....	.....	.....	Do.
.....	.....	.....	2005	.....	.....	.....	Do.
.....	.....	.....	2006	.....	.....	.....	Do.
.....	.....	.....	2007	.....	.....	.....	Do.
.....	.....	.....	2008	.....	.....	.....	Do.
.....	.....	.....	2009	.....	.....	.....	Do.
.....	.....	.....	2010	.....	.....	.....	Do.
.....	.....	.....	2011	.....	.....	.....	Do.
.....	.....	.....	2012	.....	.....	.....	Do.
.....	.....	.....	2013	.....	.....	.....	Do.
.....	.....	.....	2014	.....	.....	.....	Do.
.....	.....	.....	2015	.....	.....	.....	Do.
.....	.....	.....	2016	.....	.....	.....	Do.
.....	.....	.....	2017	.....	.....	.....	Do.



*Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &c.—Continued.*

State.	Locality.	Situation.	Elevation in feet, above sea-level.	DATE OF COM- MENCEMENT.		DATE OF SUS- PENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Virginia .....	Richmond, Henrico Co., Scott's Creek, near Port- smouth. Winchester, Frederick Co	On James River .....  30 miles from the Blue Ridge Mountains.	50	1806	.....	.....	.....	.....	M. Reposs, 1807, p. 215.
			15	1855	June 29	.....	.....	.....	J. A. Manning, Va. M. J., 1857, p. 29.
			700	1804	July —	.....	.....	.....	R. Dunbar, Med. Repos., 1805, p. 352.



# CHART OF YELLOW FEVER IN THE United States

Giving Elevations above Sea-Level of Localities where  
Yellow Fever has appeared since A.D. 1668.

Prepared by  
**DR. J. M. TONER**  
to accompany his paper on  
*The Distribution and Natural History of Yellow Fever in the United States*  
in the Report of the  
Supervising Surgeon  
—John M. Woodworth—  
United States Marine-Hospital Service

(Figures accompanying Names of Localities indicate Elevation above Sea-Level in Feet.)











